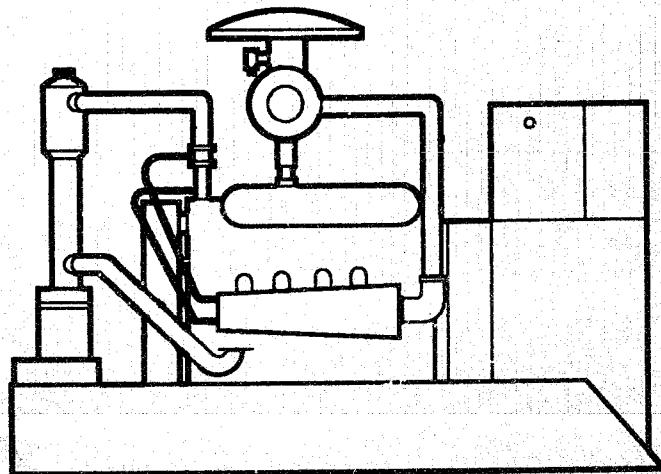


**Onan**

# **PARTS CATALOG**

## **ENTX Generating Set**



**928-0225  
2-92 (Spec B)  
Replaces 8-90 (Spec B)  
Printed in U.S.A.**

## Introduction

This Parts Manual applies to the Standard Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT of the Set (Engine End).

### Set Data Table

MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
80.0ENTX - */#0	80,000 WATTS	1800 RPM	12 VDC
100.0ENTX - */#0	100,000 WATTS	1800 RPM	12 VDC

### Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
L (15)	120/240	60	12	1	+
L (15)	120/208	60	12	3	+
	120/240	60	12	3	
	127/220	60	12	3	
	139/240	60	12	3	
	240/416	60	12	3	
	254/440	60	12	3	
	277/480	60	12	3	
H (9X)	347/600	60	4	3	
Z (515)	110/220	50	12	1	+
	115/230	50	12	1	
Z (515)	110/190	50	12	3	+
	110/220	50	12	3	
	115/200	50	12	3	
	115/230	50	12	3	
	120/208	50	12	3	
	127/220	50	12	3	
	220/380	50	12	3	
	230/400	50	12	3	
	240/416	50	12	3	
	254/440	50	12	3	

- \* - Voltage Codes follow Model Letter designations.
- # - Specification Number: Number 1 is Standard, all others indicate variations.
- @ - Specification Letter: Letter advances ( A to B, B to C, etc) with major manufacturing changes.
- + - The Stators are Reconnectible.

## Engine Replacement Parts

All Engine replacement parts must be ordered from the Engine Manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the Engine Manufacturer's Nameplate and supply the Model, Specification, Serial Numbers and other available information. Refer to the Engine Manufacturer's Manuals for your nearest authorized Parts Distributor; or contact the Onan Distributor from whom you purchased this set, for assistance in ordering the replacement parts. Ford Model Number for this set is LSG-8751-6005-A.

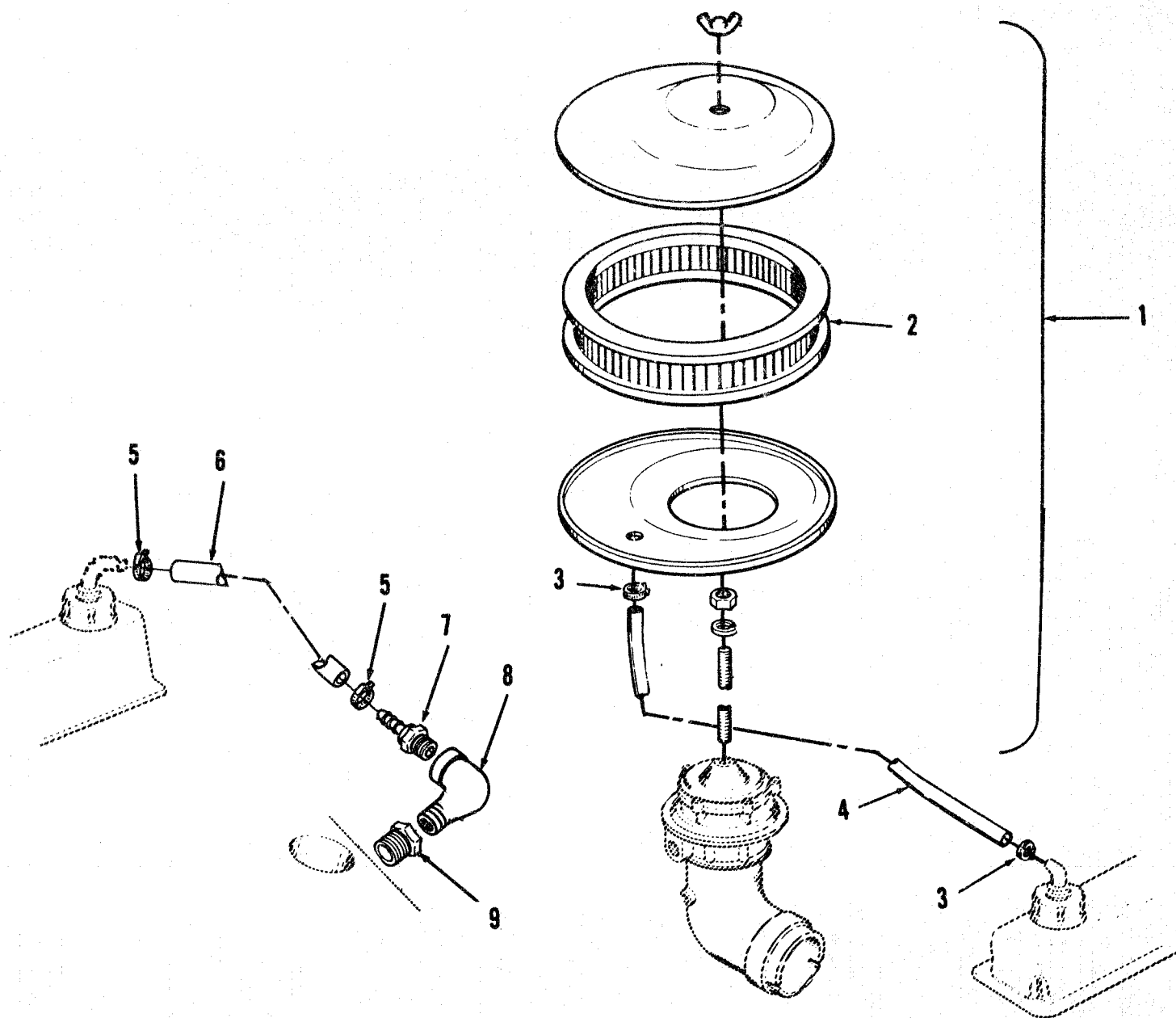
## Index

- Actuator 15
- Adapter, Cooler - Oil 45
- Adapter, Filter - Oil 11
- Adapter, Generator 9
- Adapter, Pipe - Hex 11
- Adapter, Pulley 19
- Alternator 12
- Arm, Adjusting - Alternator 12
  
- Base, Housing - Thermostat 19
- Bearing, Ball 39
- Bell, End 39
- Belt, Drive - Alternator 12
- Belt, Set 19
- Block, Terminal 33
- Board, Delay - Time 31
- Board, Monitor - Engine 31
- Board, Sensor - Magnetic 31
- Board, Terminal 9
- Body Assembly - Throttle 17
- Box, Control 33
- Brace 19
- Bracket, Cooler - Oil 45
- Bracket, Guard - Belt 19,45
- Bracket, Mounting - Alternator 12
- Bracket, Mounting - Controller 15
- Bracket, Mounting - Hub 19
- Bracket, Mounting - Water Heater 21
- Bracket, Mounting - Terminal Board 9
- Bracket, Mounting - Engine Control 31
- Bracket, Mounting - Current Transformer 35
- Bracket, Mounting - Watt Transducer 42
- Bracket, Mounting - Circuit Breaker 43
- Brackets, Mounting - Engine 28
- Breaker, Circuit 33,42
- Bushing, Cable 36
  
- Cable, Battery 7
- Cable, Electrical 34,41
- Cap, Radiator 19
- Cap, Rain 25
- Capacitor 12
- Charger, Turbo 17
- Chassis 28
- Clamp, Loop 31,33,40
- Cleaner, Air 4
- Cock, Drain 19,21
- Components, Alternator 13
- Components, Rotor - Exciter 40
- Connector, Hose 4,21
- Contact Assembly, Generator 39
- Contact 21
- Control, Engine 31
- Control, Generator 33
- Controller 15
- Cooler, Oil 11,45
- Cover, Belt Guard - Remote Radiator 45
- Cover, Belt Guard - Remote Radiator 45
- Cover, Breaker - Circuit 43
- Cover, Breaker - Circuit 43
- Cover, Housing - Thermostat 19
- Cover, Mounting Hole - Switch 31
- Cover, Starter 7
- Cover, Thermostat 34
- Cross, Pipe 7
  
- Dial, Scale 42
- Disk, Drive 39
- Door, Control - Engine 31
- Door, Control - Generator 33
- Doors, Housing - Set 27
  
- Elbow, Mounting - Turbo Charger 17
- Elbow, Pipe - Reducing 90° 23
- Elbow, Pipe - Street 90° 4,11
- Elbow, Pipe - Street 45° 21
- Element, Cleaner - Air 4
- Engine Parts, Left Side 7
- Engine Parts, Right Side 9
- Exhaust System 23
  
- Fan, Alternator 12
- Fan, Cooling - Rotor 39
- Fan, Radiator 19
- Filter, Oil 11
- Fitting, Restrictor - Hex 17
- Flange, Oil - Drain 11
- Flange, Pipe 23
- Foam, Insulation - Thermal 27
- Frame, Holddown - Battery 28
- Fuel System, Gas - Natural 17
- Fuse, Cartridge 31
  
- Gasket, Body - Throttle 17
- Gasket, Flange - Oil 11
- Gasket, Flange - Pipe 23
- Gasket, Housing - Thermostat 19
- Gasket, Mixer - Air/Gas 17
- Gasket, Tube - Exhaust 23
- Gauge, Pressure - Oil 31
- Gauge, Temperature - Oil 31
- Gauge, Temperature - Water 31
- Gear, Ring 9
- Generator 39
- Governor, Electronic 15
- Grille, Guard - Radiator 19
- Grille, Housing - Control 36
- Grille, Housing - Set 27
- Grommet 33,40
- Guard, Belt 19
- Guard, Belt - Remote Radiator 45
- Guard, Fan 19
- Guard, Radiator 19
  
- Harness, Wiring 7,15,31,33,42
- Heater, Control 33
- Heater, Electrical 21,34,41
- Heater, Generator 41
- Heater, Water 21
- Holder, Lamp 31
- Hose, Oil 45
- Housing, Connector 7,31
- Housing, Control 36
- Housing, Set 27
- Hub 19
  
- Joint, Ball 15
  
- Key 27
- Knob 33

## Index

- Lamp, Incandescent 31  
Latch, Housing - Set 27  
Lever 15  
Light, Indicator - Dual 33  
  
Manifold, Exhaust - Left and Right 23  
Meter, Ampere/Frequency/Watt 33,42  
Meter, Tach 31  
Meter, Totalizing - Time 31  
Meter, Volt 33  
Mixer, Air/Gas 17  
Module, Indicator - Fault 31  
Mount, Vibration 28,33,42  
Muffler, Exhaust 25  
  
O-Ring 17  
  
Panels, Breaker - Circuit 43  
Panels, Housing - Set 27  
Pick Up, Magnetic 15  
Plate, Mounting - Water Heater 21  
Plate, Oil - Return 11  
Plug, Button 31  
Plug, Pipe - Square Head 7,23  
Potentiometer, Control - Speed 31  
Pulley 12,19  
  
Radiator 19  
Radiator, Remote 45  
Receptacle, Fastener 33  
Rectifier, Positive/Negative 40  
Regulator, Pressure - Gas Vapor 17  
Regulator, Voltage 33  
Relay 33  
Rheostat 33  
Rotor Assembly, Generator 39  
Rotor, Exciter 40  
  
Saddle 36  
Screen, Air - Generator 39  
Seal, O-Ring 39  
Sender, Pressure - Oil 7  
  
Sender, Temperature - Oil 9  
Sender, Temperature - Water 7  
Shield, Heat 25  
Shroud, Fan 19  
Sink, Heat 40  
Socket, Relay 33  
Solenoid 7  
Spacer, Adjusting Arm - Alternator 12  
Spacer, Cover - Remote Radiator 45  
Spacer, Mounting Bracket - Alternator 12  
Spacer, Shield - Heat 25  
Spacer, Sleeve - Heater 34  
Spacer, Sleeve - Rotor 39  
Stator, Exciter 39  
Strap, Electrical - Ground 28,33  
Strip, Marker 33  
Stud 15,23  
Switch, Pressure - Oil 7  
Switch, Push - Reset/Panel Lamp 31  
Switch, Push - Run/Stop/Remote 31  
Switch, Rotary 33  
Switch, Temperature - Engine 9  
Switch, Thermostatic - Water 9  
Switch, Thermostatic 21  
  
Tee, Pipe - Street 7  
Terminal, Lug - Ground 28  
Thermostat 19,34  
Transducer, Watt 42  
Transformer, Current 33,35  
Tube Assembly, Exhaust 23  
Tube, Exhaust 25  
Tube, Water - Upper and Lower 19  
Turbocharger 23  
  
Valve 11  
  
Wheel, Fly 9  
Wrapper, Generator 36  
Wrapper, Breaker - Circuit 43

# Air Cleaner

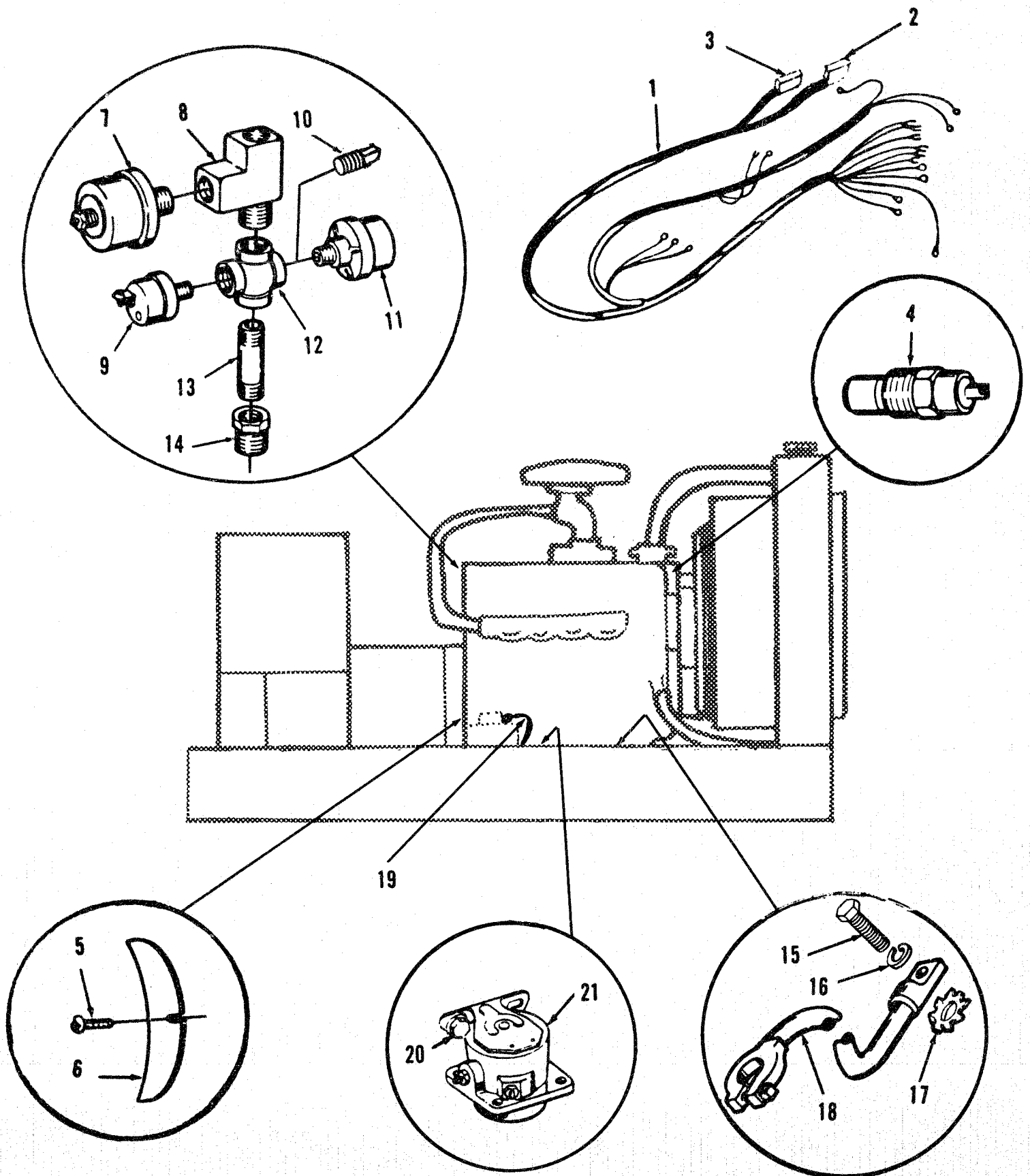


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1724	1	Cleaner, Air (Includes Element)
2	140-1837	1	Element
3	503-0547	2	Clamp, Hose
4	503-1093	1	Hose

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	503-1133	2	Clamp, Hose
6	503-1506	-	Hose, Bulk (1 Ft Required)
7	502-1012	1	Connector, Hose
8	505-0011	1	Elbow, Pipe - Street, 90 DEG
9	505-0017	1	Bushing, Reducer - Hex



# Miscellaneous Engine Parts Left Side

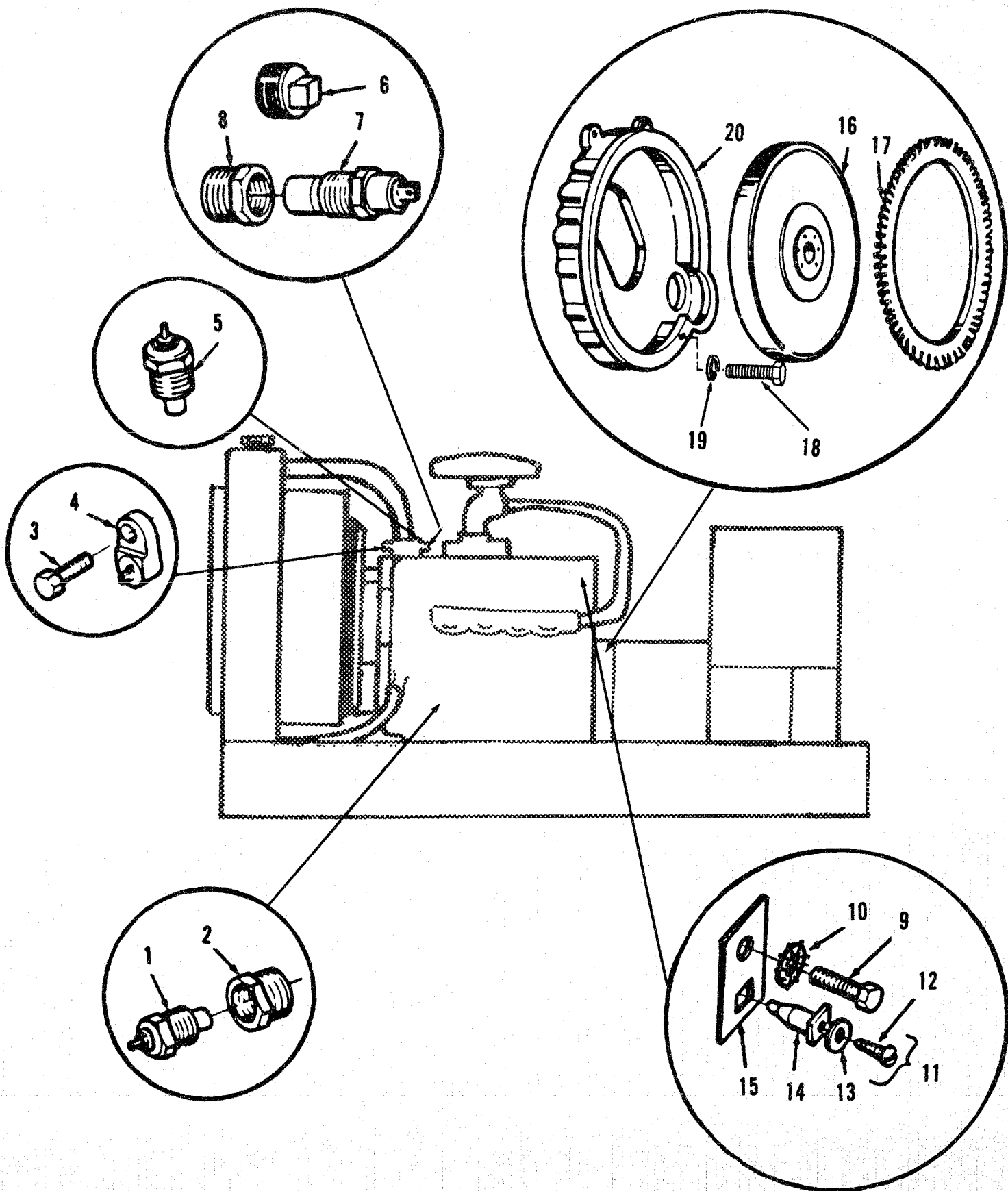


# Miscellaneous Engine Parts Left Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring (Includes	10	505-0057	1	Plug, Pipe - Square Head
	338-2027	1	Connectors)	11	309-0545	1	Switch, Pressure - Oil (S6)
	338-2628	1	Use with Motorola Alternator	12	505-0763	1	Cross, Pipe
2	323-1304	1	Use with Bosch Alternator	13	505-0104	1	Nipple, Pipe
	323-1200	6	Housing, Connector - 6 Place	14	505-0007	1	Bushing, Reducer - Hex
3	323-1306	1	Contact, Pin	15	800-0071	1	Screw, Cap - Hex Head
	323-1200	8	Housing, Connector - 8 Place				(7/16-14 x 1")
4	193-0247	1	Contact, Pin	16	850-0055	1	Washer, Lock - Spring (7/16")
			Sender, Temperature -	17	856-0013	1	Washer, Lock - Ell (1/2")
			Water (E2)	18			Cable, Battery
5	812-0075	1	Screw, Machine - Round Head		416-0019	1	Positive
			(#8-32 x 1/4")		416-0530	1	Negative
6	191-0773	1	Cover, Starter	19	226-3413	1	Lead, Electrical
7	193-0244	1	Sender, Pressure - Oil (E1)	20	821-0018	2	Screw, Self-locking - Hex
8	502-0058	1	Tee, Pipe - Street, Brass				Washer Head (1/4-20 x 5/8")
9	309-0544	1	Switch, Pressure - Oil (S1)	21	307-1166	1	Solenoid - 12 VDC (K6)



# Miscellaneous Engine Parts Right Side

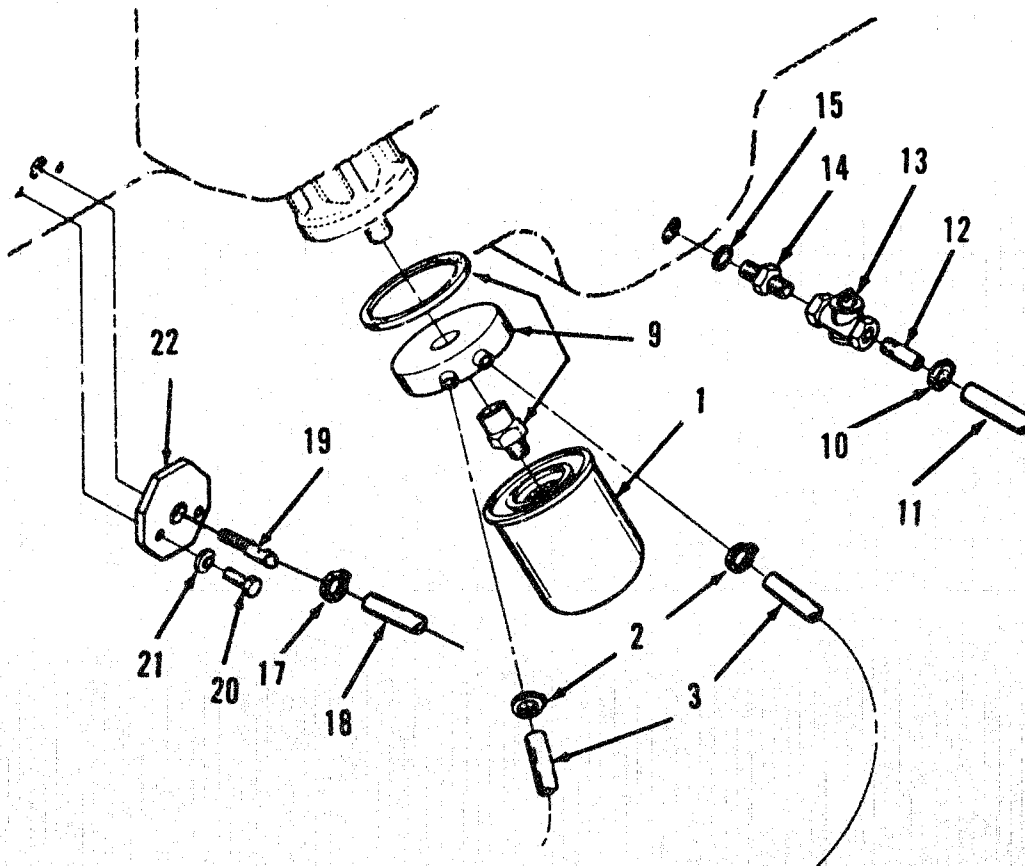
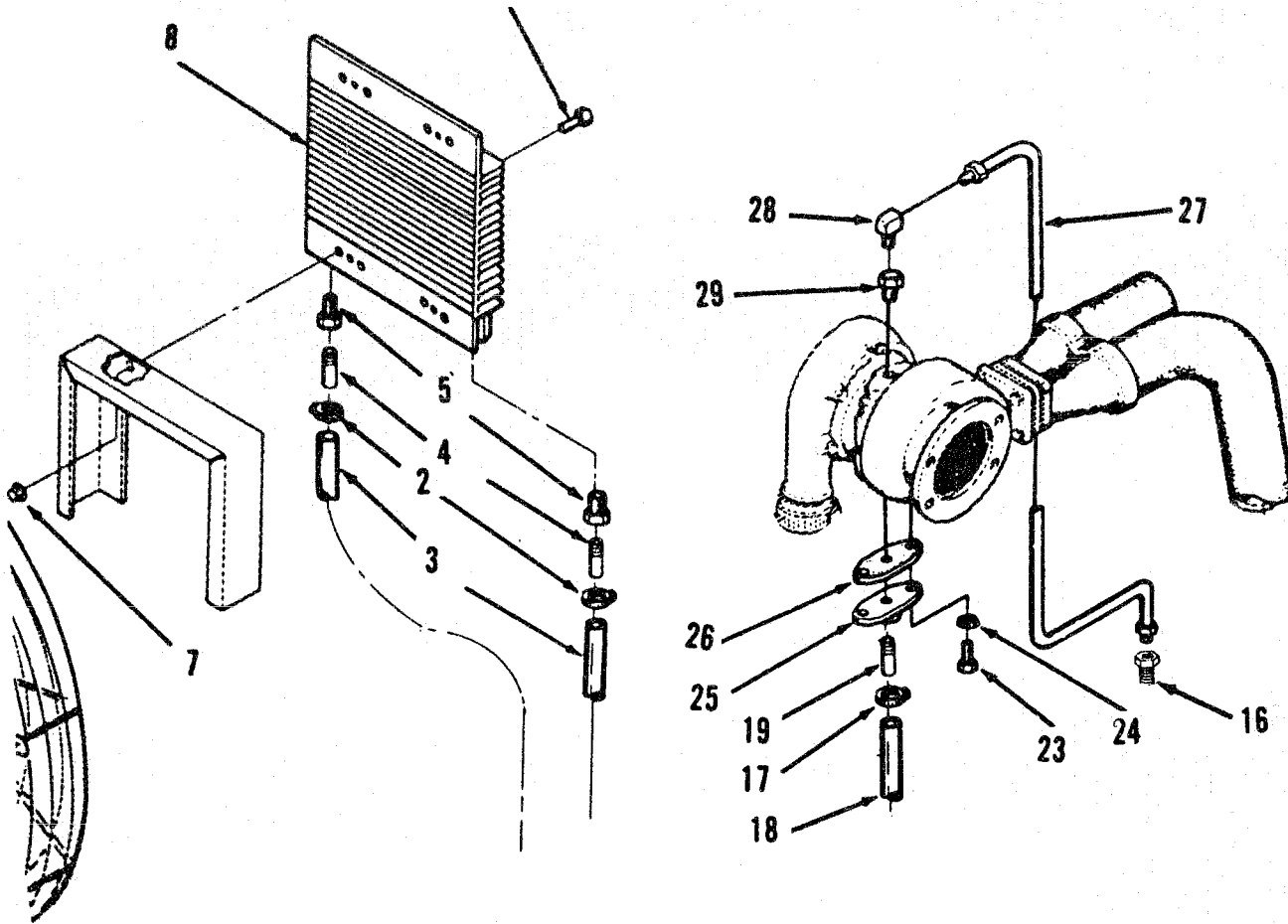


# Miscellaneous Engine Parts Right Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0249	1	Sender, Temperature - Oil (E5)	11	332-1292	1	Board, Terminal (Includes Parts Marked *)
2	505-0007	1	Bushing, Reducer - Hex	12	809-0035	1	*Screw, Thread Cutting - Round Head (#8 x 3/4")
3	821-0029	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")	13	508-0015	1	*Washer, Insulating
4	309-0269	1	Switch, Temperature - Engine (S5)	14	870-0196	1	*Nut, Insulating
5	309-0179	1	Switch, Thermostatic - Water (S2)	15	332-1281	1	*Bracket, Mounting
6	505-0130	1	Plug, Pipe - Square Head	16	104-1097	1	Wheel, Fly (Includes Ring Gear)
7	309-0178	1	Switch, Thermostatic - Water (S7)	17	104-0723	1	Gear, Ring
8	505-0499	1	Bushing, Reducer - Hex	18	800-0072	8	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
9	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")	19	850-0055	8	Washer, Lock - Spring (7/16")
10	853-0018	1	Washer, Lock - EIT (3/8")	20	231-0260	1	Adapter, Generator

\* - Parts included in 332-1292 Terminal Board.

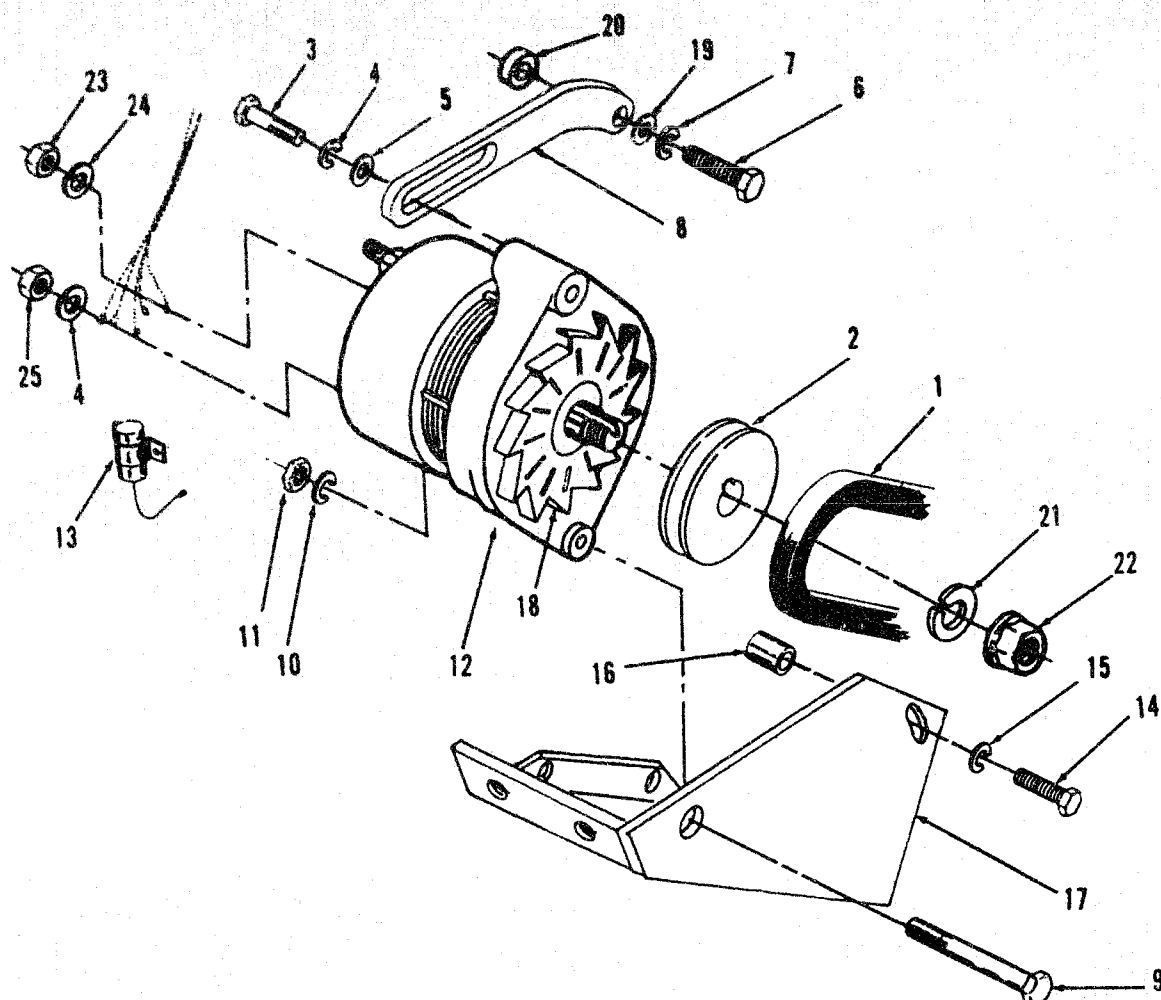
# Oil Lube System



## Oil Lube System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0193	1	Filter, Oil	16	502-0003	1	Connector, Inverted Male - Hex
2	503-1133	4	Clamp, Hose	17	503-0547	2	Clamp, Hose
3	503-1099	2	Hose	18	503-1097	2	Hose
4	505-0302	2	Nipple, Pipe - Half	19	505-0135	2	Nipple, Pipe - Half
5	505-0018	2	Bushing, Reducer - Hex	20	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
6	821-0016	3	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	21	850-0045	2	Washer, Lock - Spring (5/16")
7	870-0257	3	Nut, Self-locking - Hex Washer Head (5/16-18)	22	121-0036	1	Plate, Oil - Return
8	102-1113	1	Cooler, Oil	23	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 7/8")
9	102-1097	1	Adapter (Includes O-Ring, Housing with Thermostat, and Female/Male Hex Adapter)	24	850-0050	2	Washer, Lock - Spring (3/8")
10	503-0032	2	Clamp, Hose	25	145-0534	1	Flange, Oil - Drain
11	503-1188	1	Hose	26	145-0535	1	Gasket
12	505-0135	2	Nipple, Pipe - Half	27	121-0037	1	Line, Oil
13	504-0030	1	Valve	28	502-0002	1	Elbow, Pipe - Street, 90 DEG, Brass
14	502-1013	1	Adapter, Pipe - Hex	29	505-0007	1	Bushing, Reducer - Hex
15	102-1320	1	Gasket				

# Alternator

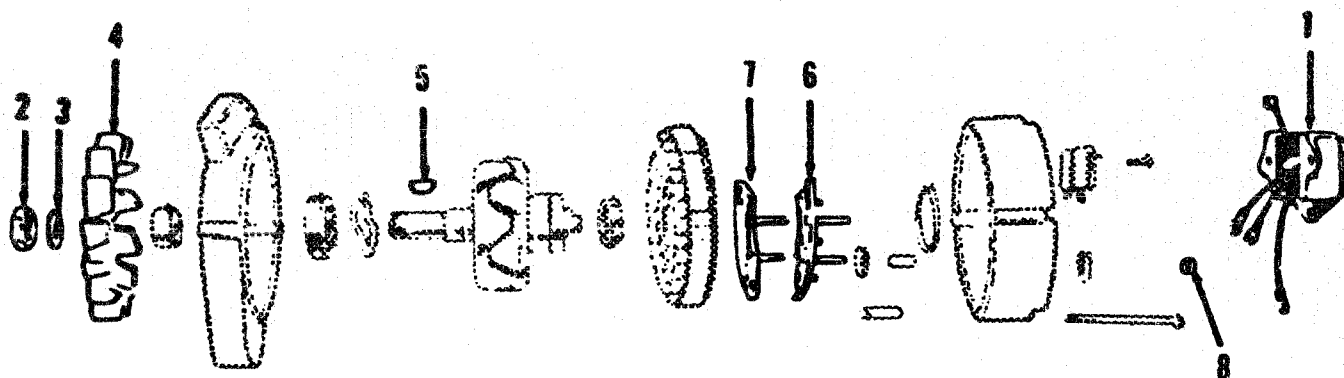


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0092	1	Belt, Drive	12			Kit, Alternator (See Separate Page for Components)
2	191-1099	1	Pulley		191-1388	1	Motorola
	191-2032	1	Used with Motorola Alternator		191-1983-01	1	Bosch (Begin Spec B)
3	800-0027	1	Screw, Cap - Hex Head	13	312-0201	1	Capacitor
	800-2058	1	Used with Motorola Alternator (5/16-18 x 7/8")	14	800-0052	1	Screw, Cap - Hex Head
			Used with Bosch Alternator (M8 x 1-1/4 x 25)		800-0058	1	Used with Motorola Alternator (3/8-16 x 1-1/2")
4	850-0045	1	Washer, Lock - Spring				Used with Bosch Alternator (3/8-16 x 3")
	850-2008	2	Used with Motorola Alternator (5/16")	15	850-0050	1	Washer, Lock - Spring (3/8")
			Used with Bosch Alternator (M8)	16	130-1805	1	Spacer
5	526-0115	1	Washer, Flat		191-2028	1	Used with Motorola Alternator
	526-2106	1	Used with Motorola Alternator (5/16")	17	191-1792	1	Used with Bosch Alternator
			Used with Bosch Alternator (M8)		191-2031	1	Bracket, Mounting
6	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")		191-1981	1	Used with Motorola Alternator
7	850-0050	1	Washer, Lock - Spring (3/8")	18	526-0029	1	Used with Bosch Alternator
8	191-0101	1	Arm, Adjusting - Alternator	19	370-4055	1	Fan (Used on Bosch Alternator)
9	800-0095	1	Screw, Cap - Hex Head	20	851-0039	1	Washer, Flat (3/8)
	800-2097	1	Used with Motorola Alternator (1/2-12 x 2-1/4")	21	870-2161	1	Spacer, Arm - Adjusting
			Used with Bosch Alternator (M10 x 1-1/2 x 80)	22			Washer, Lock - Spring
10	850-0060	1	Washer, Lock - Spring (1/2")				Nut, Self-Locking - Hex
			(Used with Motorola Alternator Only)	23	850-2006	2	Washer Head (M16)
11	862-0005	1	Nut, Hex	24	850-2005	2	*Nut, Hex (M5)
	870-2056	1	Used with Motorola Alternator (1/2-13)	25	860-2008	1	Washer, Lock - Spring (M5)
			Used with Bosch Alternator (M10 x 1-1/2) (Self-Locking Hex Washer Head)				*Nut, Hex (M8)

# - Used to attach the wiring harness to the alternator D+ terminal and to attach the ground wire to one of the four alternator housing assembly studs.

\* - Used to attached the wiring harness lead to the B+ terminal of the alternator.

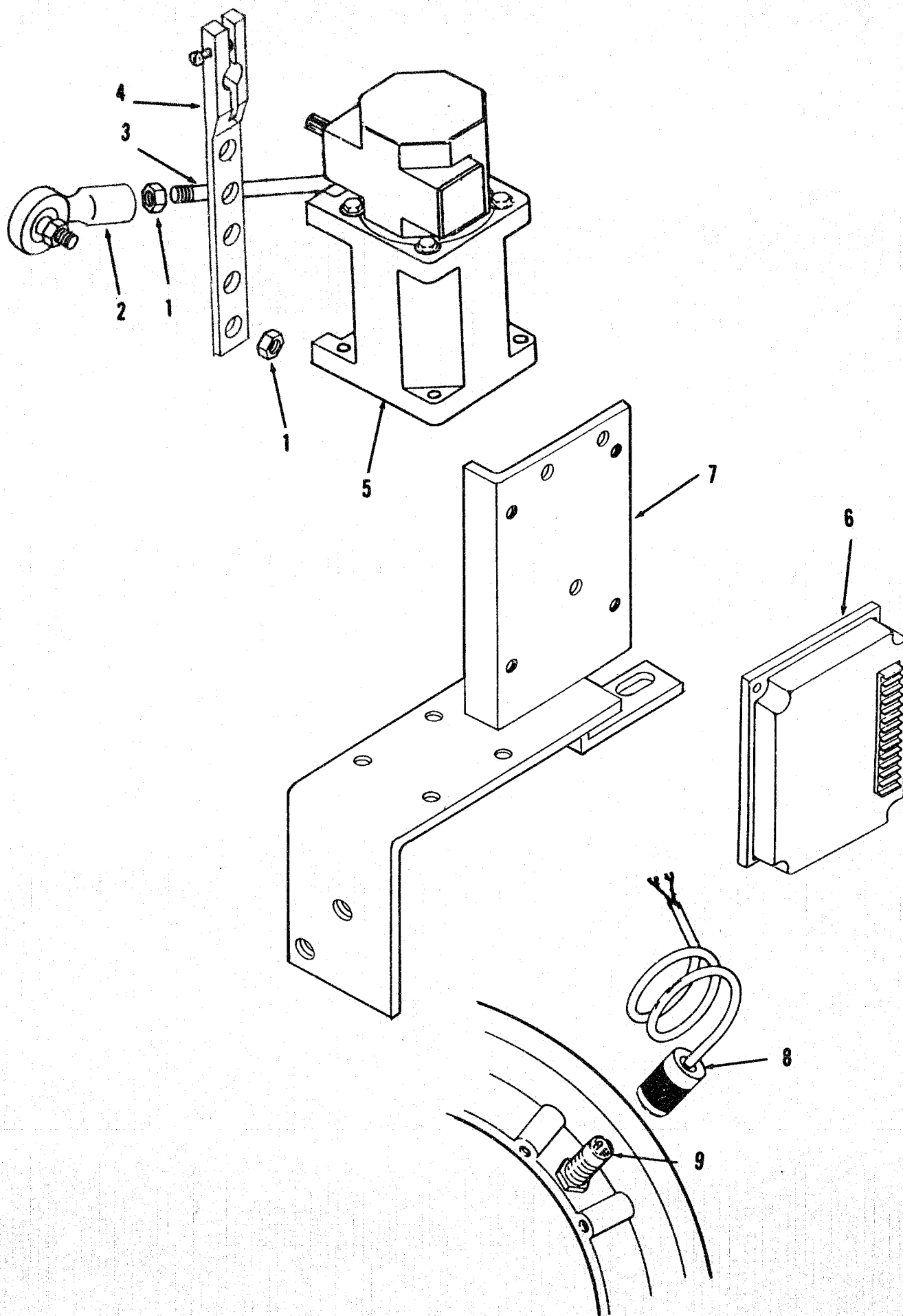
## Alternator Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1388	1	Alternator Kit - Complete
1	191-1390	1	Regulator, Voltage - 12 VDC
2	868-0007	1	Nut, Hex (5/8-18)
3	850-0070	1	Washer, Lock - Spring (5/8")
4	191-0943	1	Fan, Cooling

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	515-0093	1	Key, Woodruff (#5)
6	191-0661	1	Diode Assembly - Positive
7	191-0662	1	Diode Assembly - Negative
8	862-0001	2	Nut, Hex (1/4-20)

# Electronic Governor

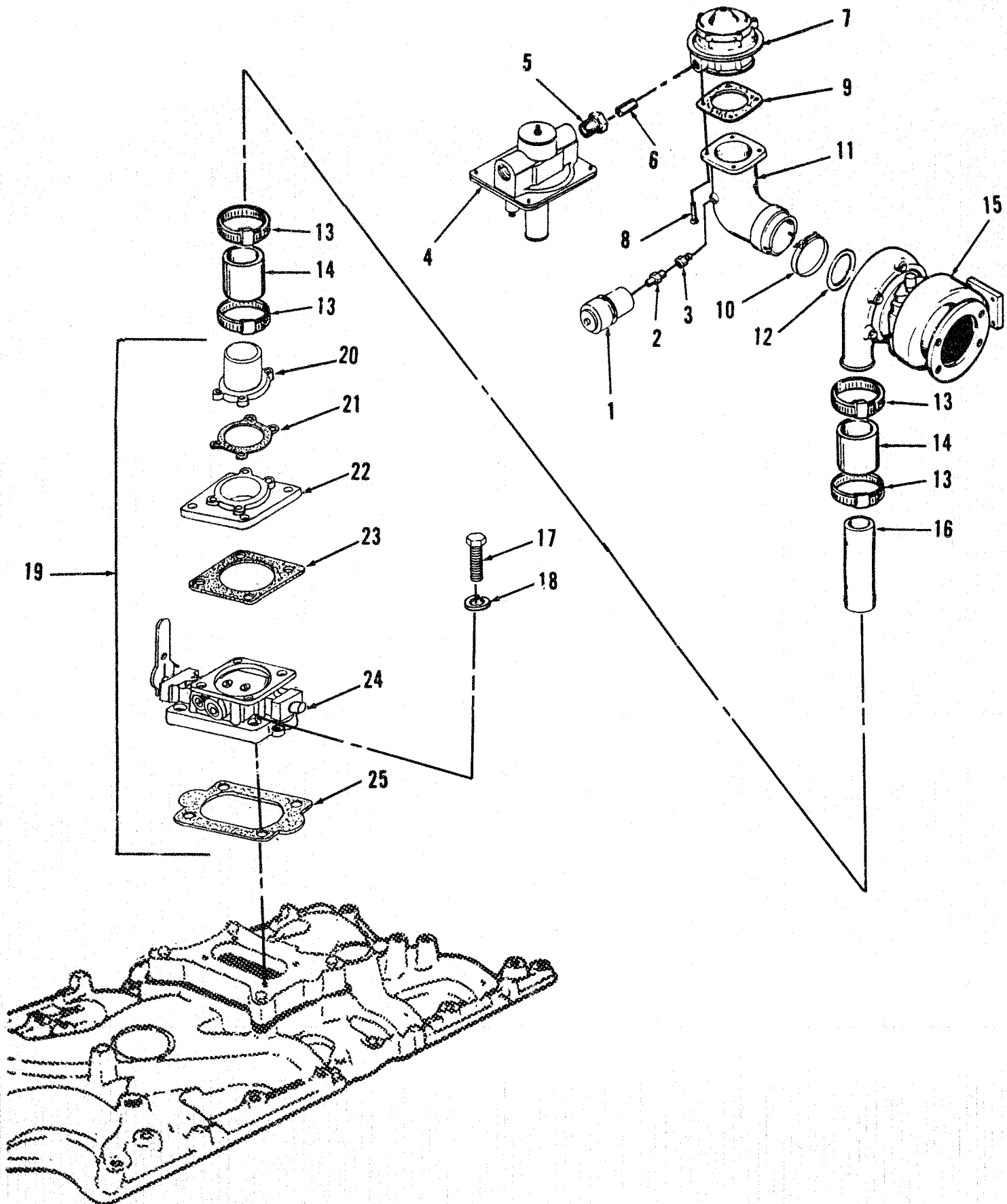


# Electronic Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	115-0025	4	Nut, Hex (1/4-28)	7	150-2163	1	Bracket, Mounting
2	150-1995	2	Joint, Ball		800-0054	1	Screw, Cap - Hex Head (3/8-16 x 2")
3	520-0967	1	Stud		800-0072	1	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
4	150-2145	1	Lever		800-0091	1	Screw, Cap - Hex Head (1/2-13 x 1-1/4")
5	151-0625	1	Actuator		850-0050	1	Washer, Lock - Spring (3/8")
	114-0023	4	Screw, Cap - Hex Head (1/4-20 x 1-1/4")		850-0055	1	Washer, Lock - Spring (7/16")
	870-0212	4	Nut, Self-locking - Hex Washer Head (1/4-20)		850-0060	1	Washer, Lock - Spring (1/2")
6	151-0624	1	Controller	8	151-0629	1	Harness, Wiring
	813-0098	4	Screw, Machine - Round Head (#10-32 x 3/8")	9	151-0433	1	Pick Up, Magnetic
	850-0030	4	Washer, Lock - Spring (#10)				



# Natural Gas Fuel System

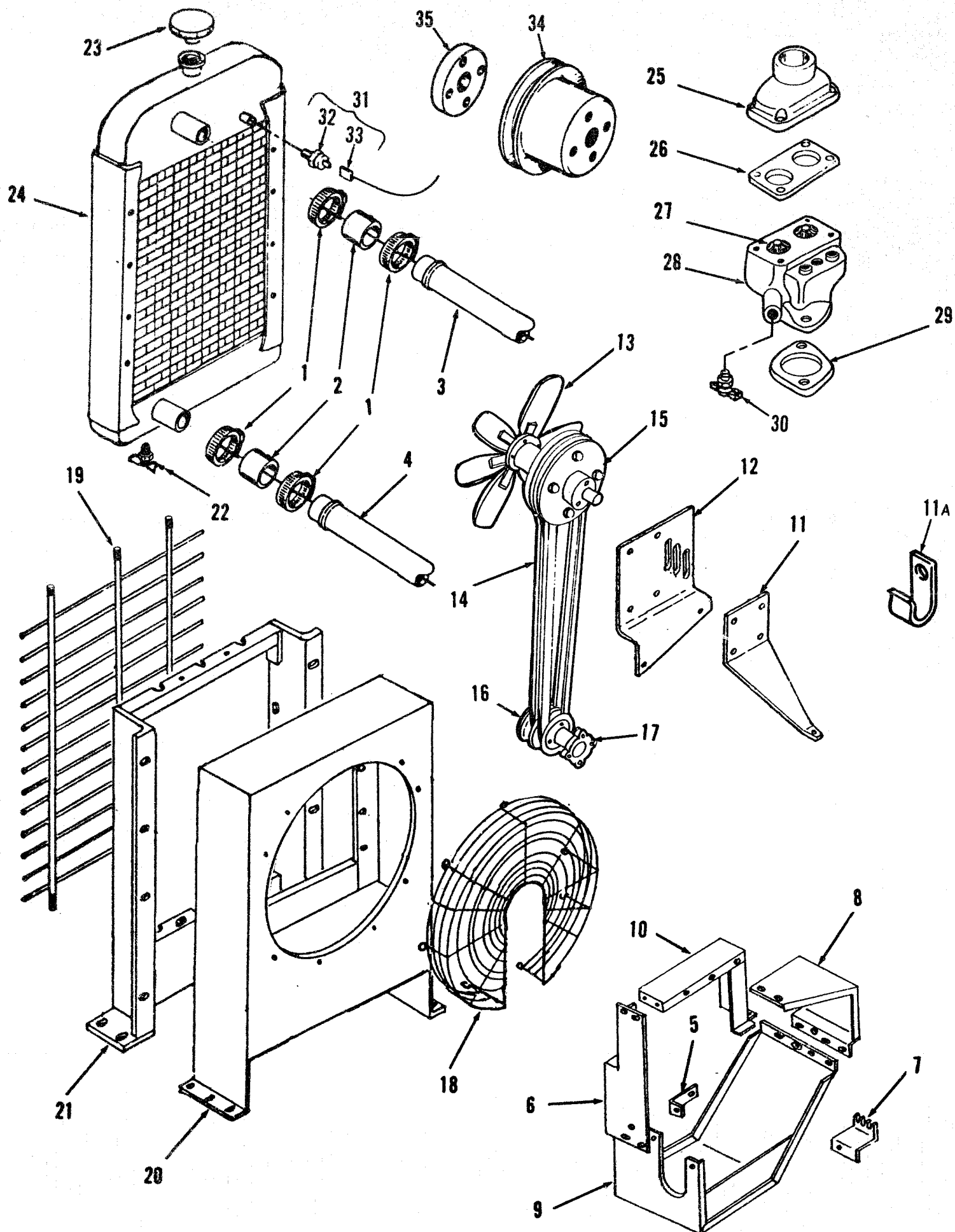


# Natural Gas Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1548	1	Indicator, Service - Air	18	850-0045	4	Washer, Lock - Spring (5/16")
2	140-1260	1	Fitting, Restrictor - Hex	19	145-0577	1	Body Assembly, Throttle (Includes Parts Marked *)
3	505-0007	1	Bushing, Reducer - Hex	20	145-0576	1	*Adapter (Includes Screws and Gasket)
4	148-0601	1	Regulator, Pressure - Gas Vapor		145-0585	4	* Screw
5	505-0129	1	Bushing, Reducer - Hex	21	145-0583	1	*Gasket
6	505-0102	1	Nipple, Pipe	22	145-0575	1	*Adapter (Includes Screws and Gasket)
7	145-0532	1	Mixer, Air/Gas (Includes Screw and Gasket)		145-0585	4	* Screw
8	145-0585	4	Screw	23	145-0540	1	*Gasket
9	145-0540	1	Gasket	24	145-0578	1	*Body, Throttle (Includes Screws, Body Gasket and Mounting Gasket)
10	503-0998	1	Clamp, T Bolt		145-0585	4	*Screw
11	145-0590	1	Elbow, Mounting - Turbo Charger		145-0587	1	*Gasket - Body
12	509-0165	1	O-Ring	25	145-0586	1	*Gasket - Mounting
13	503-1508	4	Clamp, Hose				
14	503-1507	2	Hose				
15			Charger, Turbo				
	127-0376	1	60 Hertz 1800 RPM Set				
	127-0380	1	50 Hertz 1500 RPM Set				
16	140-2114	1	Tube				
17	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")				

\* - Parts Included in 145-0577 Throttle Body Assembly

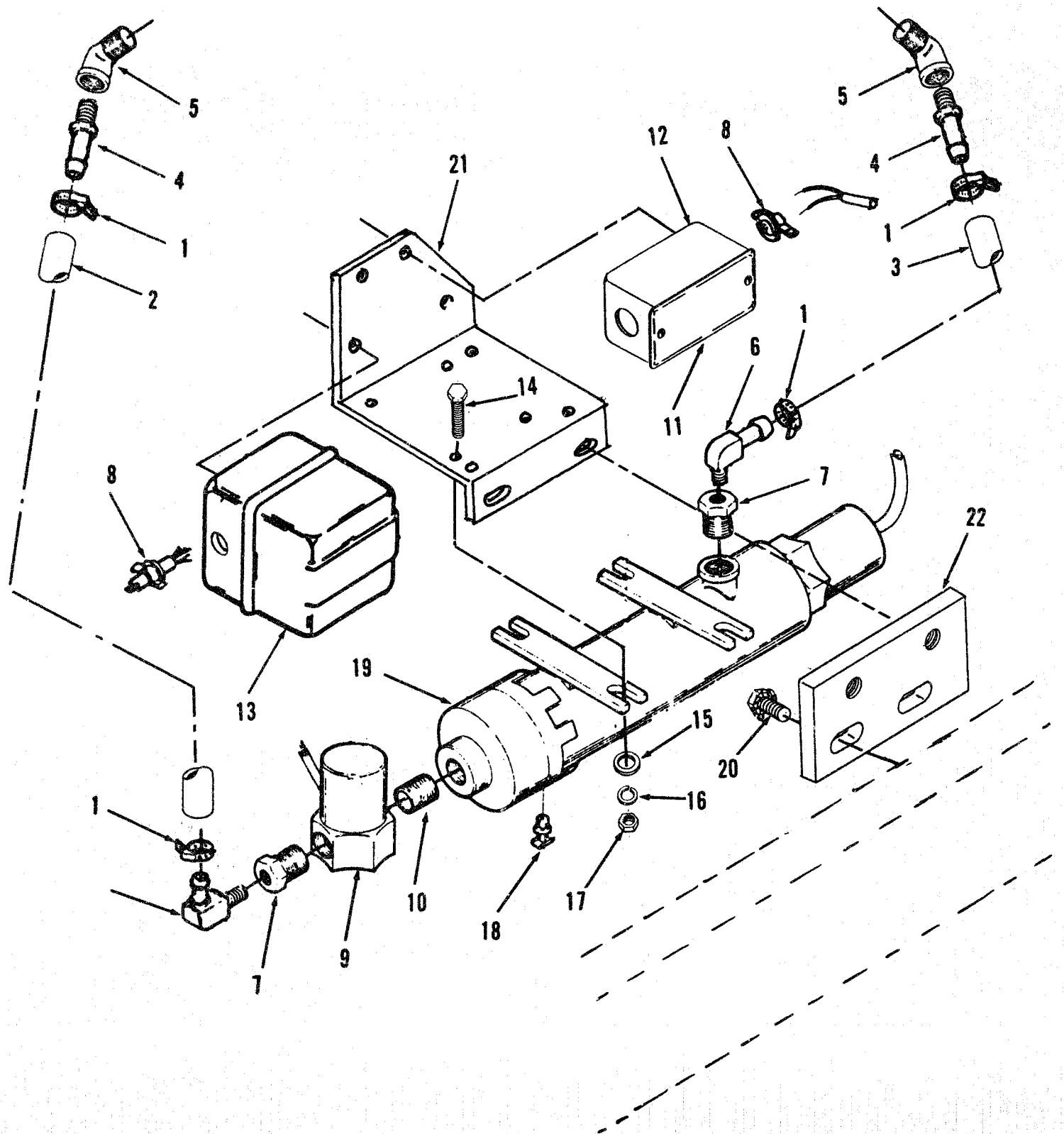
# Radiator Cooling System



# Radiator Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1141	8	Clamp, Hose	18	130-0986	1	Guard, Fan
2	503-0571	4	Hose, Rubber		821-0018	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")
3	130-1988	1	Tube, Water - Upper	19	130-2984	1	Grille
4	130-1999	1	Tube, Water - Lower		870-0281	6	Nut, Self-locking - Hex Washer Head (3/8-16)
5	130-3003	1	Bracket	20	130-2987	1	Shroud, Fan
	821-0029	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		821-0028	8	Screw, Self-locking - Hex Washer Head (3/8-16 x 1/2")
6	130-2997	1	Guard, Belt		821-0029	6	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")
	821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		870-0281	6	Nut, Self-locking - Hex Washer Head (3/8-16)
7	130-3002	1	Bracket	21	130-2991	1	Guard, Radiator
	821-0029	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		821-0018	8	Screw, Self-locking - Hex Washer Head (3/8-16 x 1/2")
8	130-2998	1	Guard, Belt		821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")
	821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)
9	130-3001	1	Guard, Belt	22	504-0003	1	Cock, Drain
10	130-2996	1	Guard, Belt	23	130-2344	1	Cap, Radiator
11	130-0973	1	Brace	24	130-2982	1	Radiator
	821-0029	5	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")	25	309-0477	1	Cover, Housing - Thermostat
			Washer Head (3/8-16)		800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")
	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)		850-0045	4	Washer, Lock - Spring (5/16")
11A	148-0274	1	Bracket, Hose	26	309-0479	1	Gasket
12	130-0971	1	Bracket, Mounting - Hub	27	309-0476	2	Thermostat
	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	28	309-0478	1	Base, Housing - Thermostat
	850-0050	1	Washer, Lock - Spring (3/8-16)		800-0029	1	Screw, Cap - Hex Head (5/16-18 x 1-1/8")
	191-0864	1	Spacer		800-0039	1	Screw, Cap - Hex Head (5/16-18 x 3-1/2)
13	130-1997	1	Fan		850-0045	2	Washer, Lock - Spring (5/16")
	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	29	130-1024	1	Gasket
14	511-0153	1	Belt, Set	30	504-0005	1	Valve, Cock
15	130-2983	1	Hub and Pulley Assembly	31	193-0407	1	Kit, Low Coolant Level
	821-0016	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4)	32	193-0322	1	Sender, Coolant - Low
	862-0016	1	Nut, Hex (1/2-13)	33	338-1919	1	Harness, Coolant - Low
	850-0060	1	Washer, Lock - Spring (1/2")	34	132-0261	1	Pulley, Pump - Water
	526-0035	1	Washer, Flat (1/2")	35	131-0353	1	Spacer, Pump - Water
16	104-1673	1	Pulley				
	800-0028	4	Screw, Cap - Hex Head (1/4-20 x 1-3/8")				
	850-0040	4	Washer, Lock - Spring (1/4")				
17	130-0968	1	Adapter				

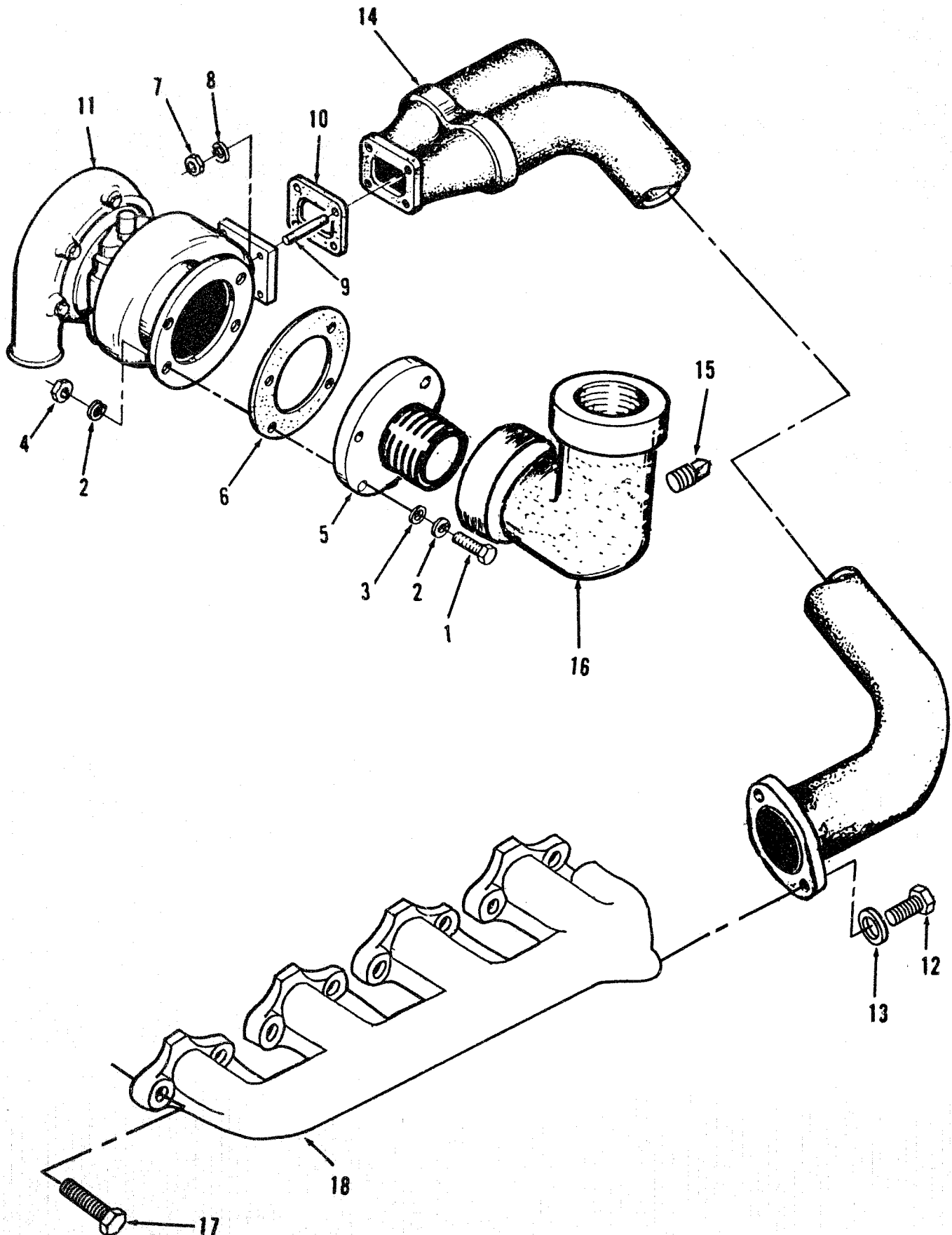
# Water Heater



# Water Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0183	4	Clamp, Hose	15	526-0018	4	Washer, Flat (1/4")
2	503-0386	-	Hose, Bulk (3 Ft Required)	16	850-0030	4	Washer, Lock - Spring (1/4")
3	503-0386	-	Hose, Bulk (1 Ft Required)	17	862-0001	4	Nut, Hex (1/4-20)
4	502-0613	2	Connector, Hose	18	504-0003	1	Cock, Drain
5	502-0156	2	Elbow, Pipe - Street, 45 DEG	19			Heater, Electrical - 2000 Wat
6	502-0942	2	Connector, Hose - 90 DEG		333-0158	1	115 VAC, 1 Phase
7	505-0455	2	Bushing, Reducer - Hex		333-0167	1	208 VAC, 1 Phase
8	331-0027	2	Clamp, Cable		333-0141	1	230 VAC, 1 Phase
9	309-0304	1	Switch, Thermostatic		333-0147	1	480 VAC, 1 Phase
10	505-0004	1	Nipple, Pipe - Close		333-0148	1	208 VAC, 3 Phase
11	330-0004	1	Cover		333-0146	1	440 VAC, 3 Phase
12	330-0005	1	Box		333-0146	1	480 VAC, 3 Phase
	812-0100	2	Screw, Machine - Round Head (#10-24 x 1/2")	20	821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")
	850-0030	2	Washer, Lock - Spring (#10)	21	130-2851	1	Bracket, Mounting
	860-0011	2	Nut, Hex (#10-24)	22	130-2850	1	Plate, Mounting
13	307-1164	1	Contactor				Terminals (Not Illustrated)
	812-0100	2	Screw, Machine - Round Head (#10-24 x 1/2")		332-0014	2	Terminal - #10
	850-0030	2	Washer, Lock - Spring (#10)		332-0149	5	Terminal - #8
	860-0011	2	Nut, Hex (#10-24)		323-0957	2	Nut, Wire
14	800-0006	4	Screw, Cap - Hex Head (1/4-20 x 3/4")				

# Exhaust System

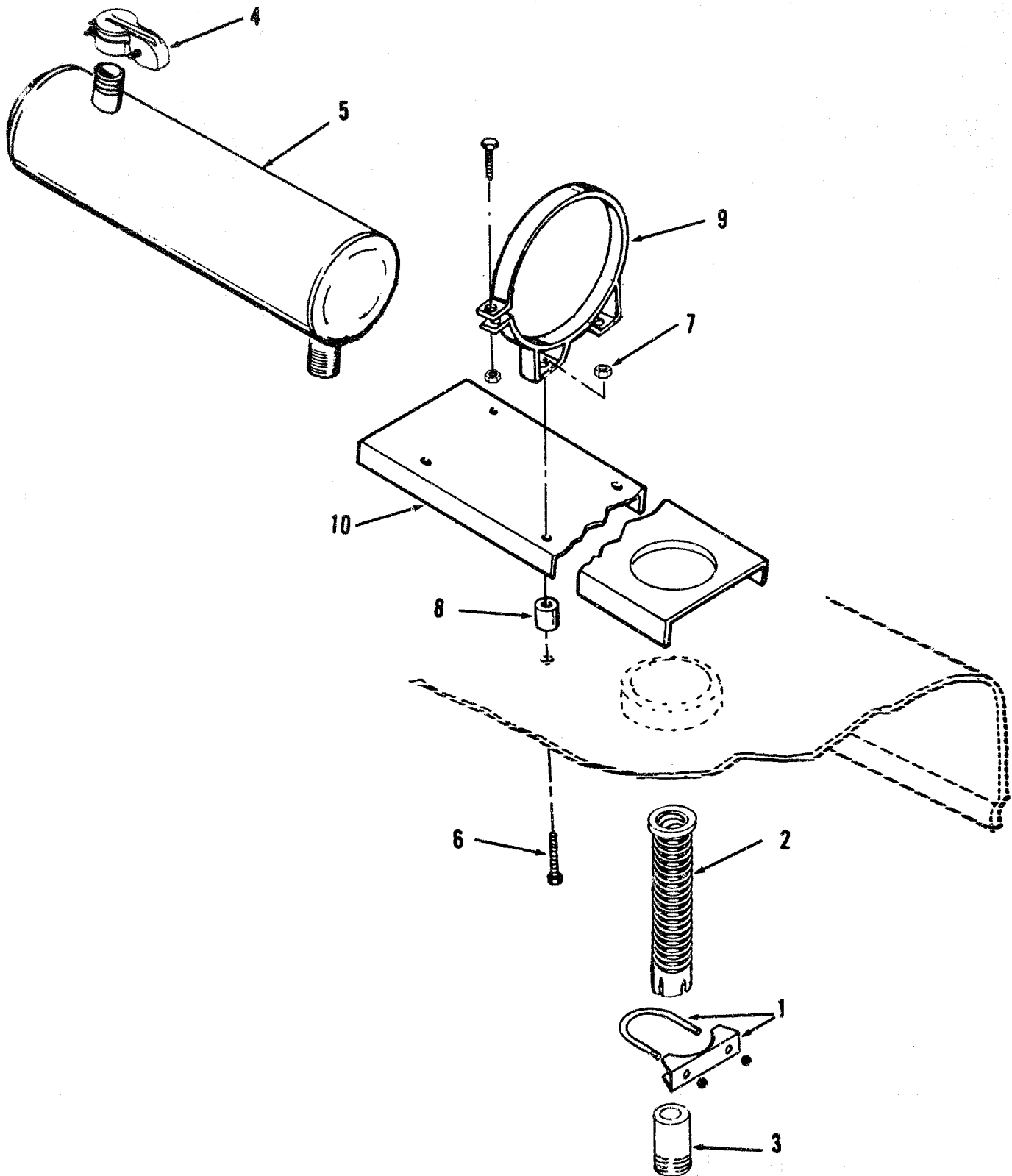


## Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0052	4	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	11		1	Turbocharger
2	850-0045	8	Washer, Lock - Spring (5/16")		127-0376	1	60 Hertz, 1800 RPM Set
3	526-0022	4	Washer, Flat (5/16")		127-0380	1	50 Hertz, 1500 RPM Set
4	870-0281	4	Nut, Self-locking - Hex Washer Head (5/16-18)	12	800-1507	4	Screw, Cap - Hex Head, Grade 8 (7/16-14 x 1-1/2")
5	155-2193	1	Flange, Pipe	13	526-0032	4	Washer, Flat (7/16")
6	155-1886	1	Gasket	14	154-2528	1	Tube Assembly, Exhaust
7	862-0003	4	Nut, Hex (3/8-16)	15	505-0057	1	Plug, Pipe - Square Head
8	850-0050	4	Washer, Lock - Spring (3/8")	16	505-1369	1	Elbow, Pipe - Reducing, 90 DEG, Modified
9	520-0925	4	Stud - SST	17	800-0574	16	Screw, Hex Head - Cam Lock
10	145-0533	1	Gasket	18			Manifold, Exhaust
					154-2499	1	Left Side
					154-2500	1	Right Side



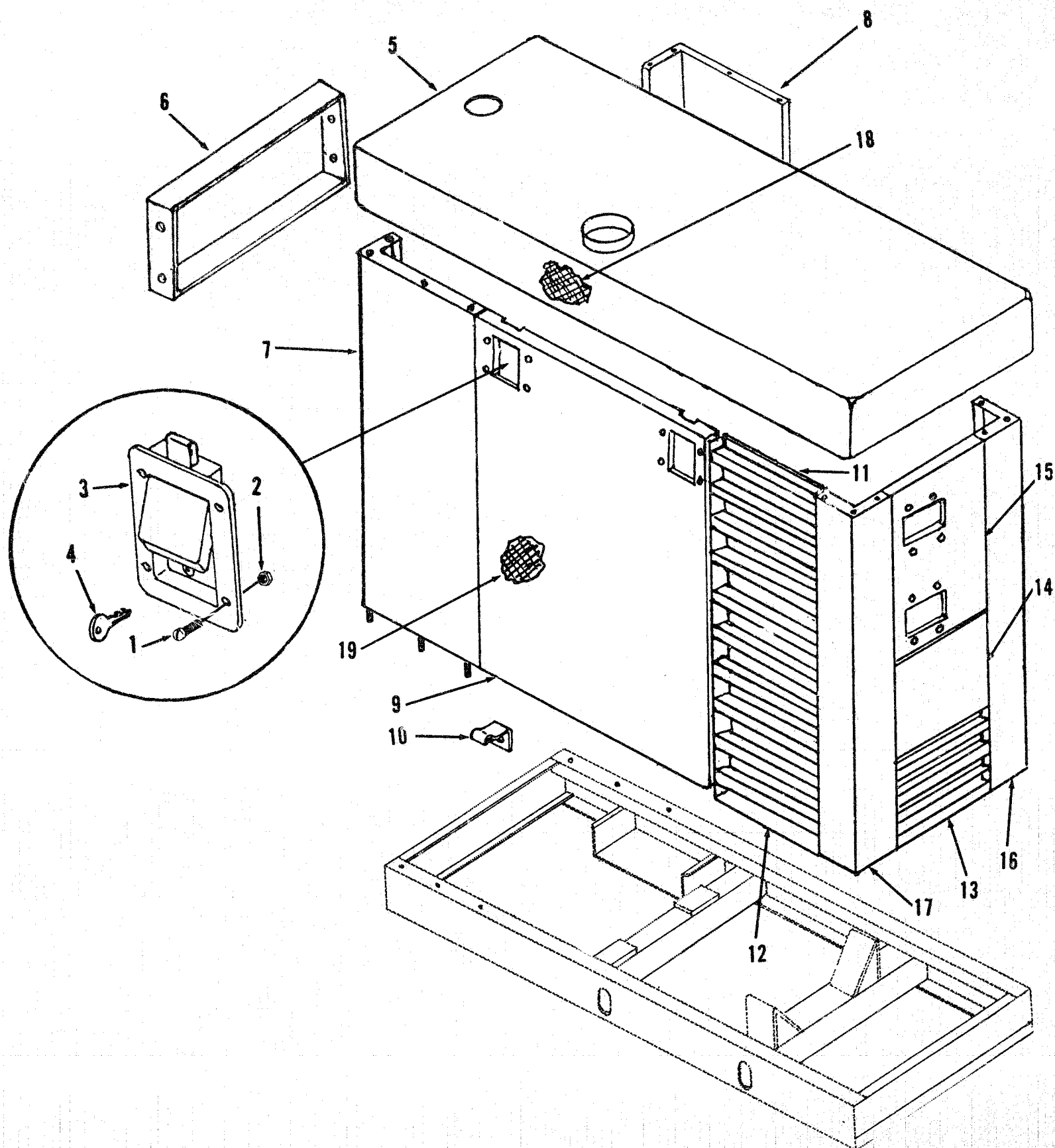
# Exhaust Muffler



## Exhaust Muffler

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2105	1	Clamp	7	870-0048	4	Nut, Hex (5/16-18)
2	155-2195	1	Tube, Exhaust	8	155-1430	4	Spacer
3	505-0387	1	Nipple, Pipe - Half	9	155-2198	2	Band, Mounting (Includes Screw and Nut)
4	155-2062-07	1	Cap, Rain	10	155-2197	1	Shield, Heat
5	155-2196-01	1	Muffler, Exhaust				
6	800-0036	4	Screw, Cap - Hex Head (5/16-18 x 2-3/4")				

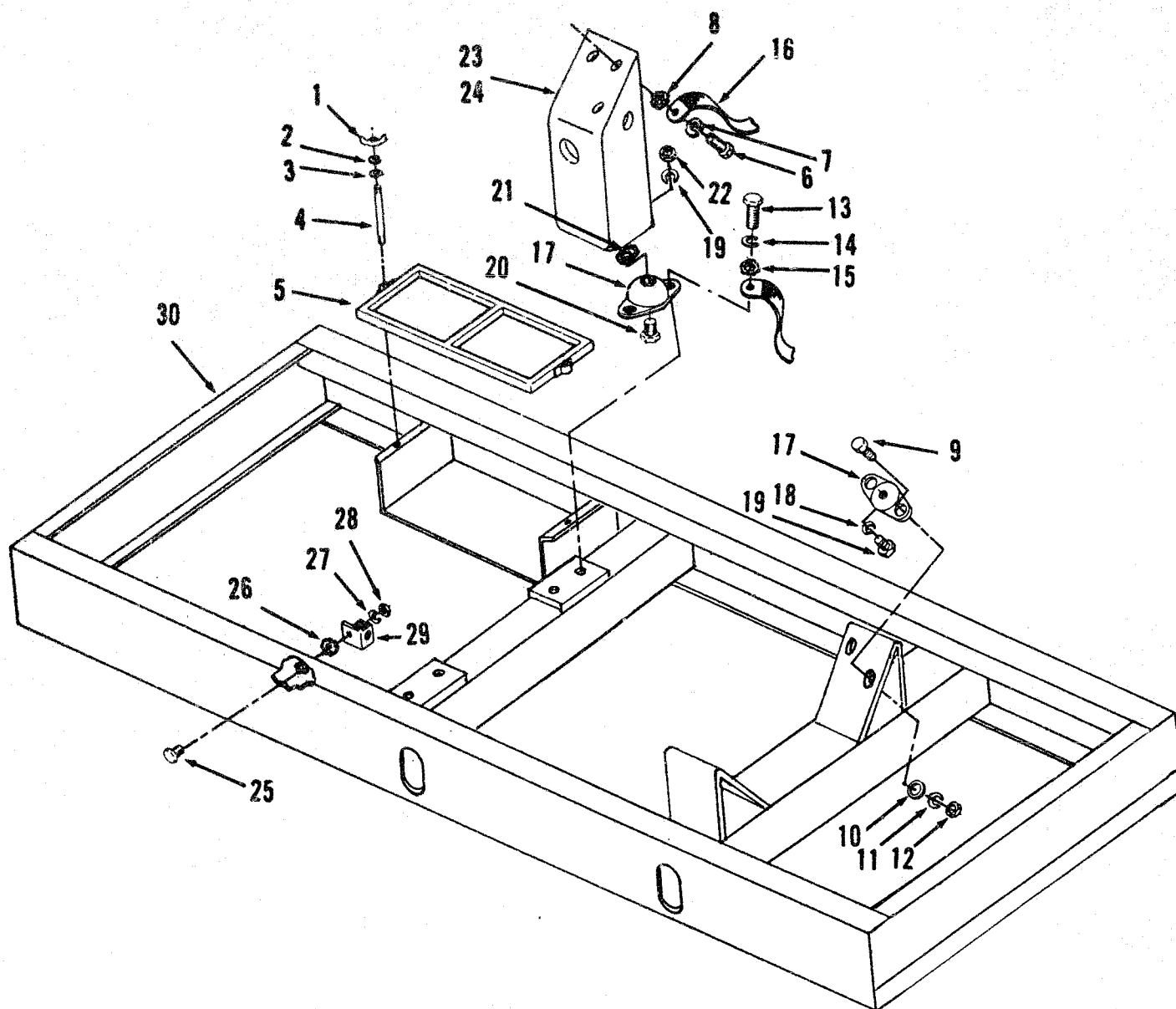
# Set Housing



# Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0607	24	Screw, Machine - Oval Head (#8-32 x 3/8")	13	405-3357 821-0014	1 4	Grille, Rear Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
2	870-0235	24	Nut, Self-locking - Hex (#8-32)		870-0257	4	Nut, Self-locking - Hex (5/16-18)
3	406-0576	4	Latch (Includes Key)				
4	406-0577	1	Key	14	405-3353 821-0014	1 4	Panel, Rear Screw, self-locking - Hex Washer Head (5/16-18 x 1/2")
5	405-3691	1	Panel, Top		870-0257	4	Nut, Self-locking - Hex (5/16-18)
	821-0029	14	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")				
	870-0281	14	Nut, Self-locking - Hex Washer Head (3/8-16)	15	405-3361 819-1083	1 3	Door, Rear Screw, Machine - Pan Head, Crossed Recessed Drive (1/4-20 x 7/16")
6	405-3694	1	Panel, Housing - Front				
	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-30 x 1/2")	16	405-3347 821-0029	1 3	Panel, Side/Rear Screw, Self-locking - Hex Washer Head (3/8-16 x 1/2")
	870-0212	4	Nut, Self-locking - Hex (1/4-20)		870-0281	3	Nut, Self-locking - Hex Washer Head (3/8-16)
7	405-3692	1	Panel, Side/Front	17	405-3375 821-0029	1 3	Panel, Side/Rear Screw, self-locking - Hex Washer Head (3/8-16 x 1/2")
	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)				
8	405-3693	1	Panel, Side/Front (Not Illustrated)				
	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)	18	128-0110	1	Foam, Insulation - Thermal (Adhesive Backed)
9	405-3352	2	Door, Side (Latches NOT Included)	19	128-0111	2	Foam, Insulation - Thermal (Adhesive Backed)
10	406-0574	4	Pivot				
	815-0236	4	Screw, Thread Cutting - Hex Head (5/16-18 x 5/8")				
11	405-3358	2	Grille, Side				
	821-0014	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")				
12	405-3368	2	Bracket, Support				
	821-0014	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")				
	870-0257	4	Nut, Self-locking - Hex (5/16-18)				

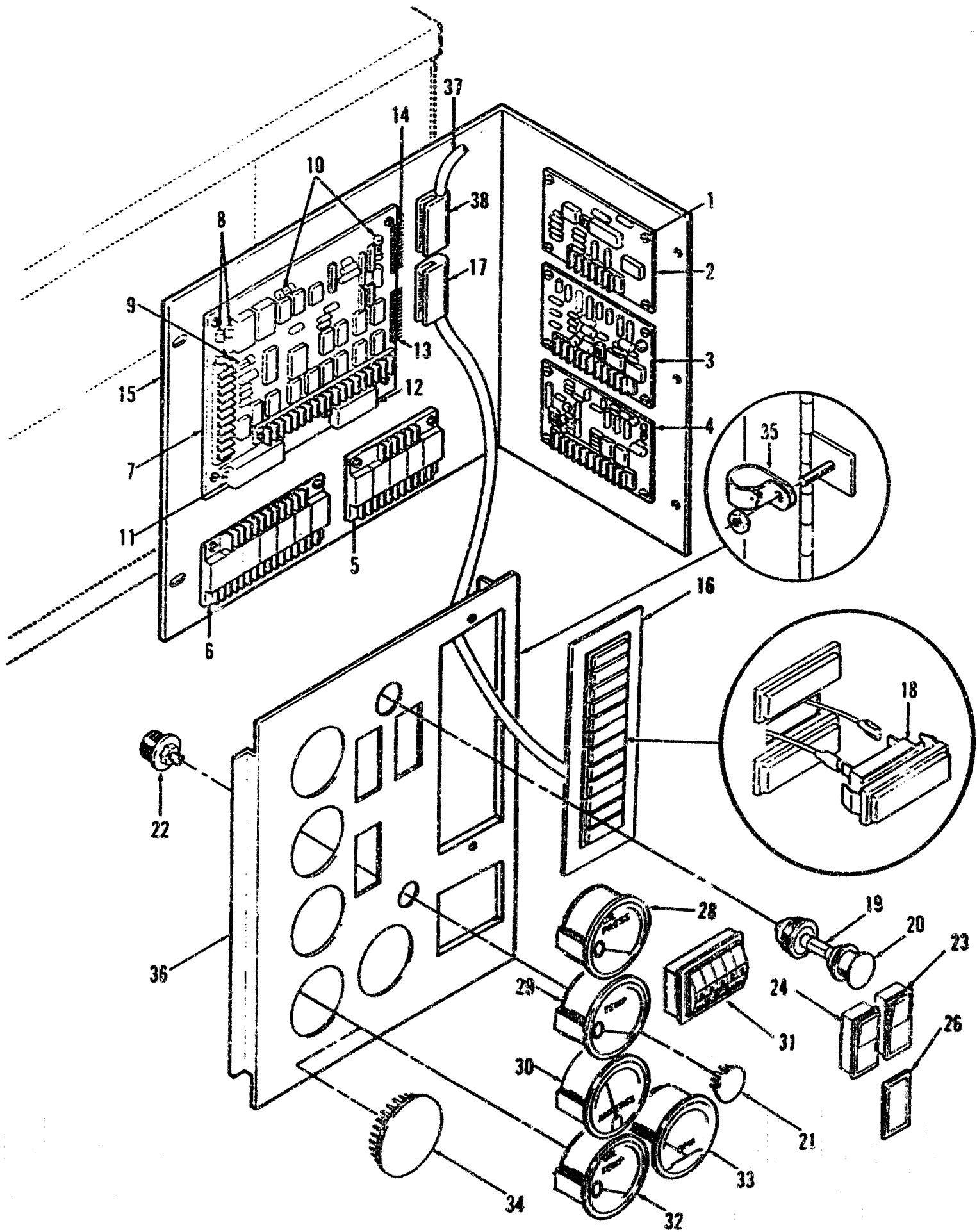
# Chassis



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	865-0007	2	Nut, Wing (5/16-18)	18	800-0520	2	Screw, Cap - Hex Head (3/4-10 x 1")
2	850-0045	2	Washer, Lock - Spring (5/16")	19	850-0079	4	Washer, Lock - Spring (3/4")
3	526-0115	2	Washer, Flat (5/16")	20	800-0153	2	Screw, Cap - Hex Head (3/4-10 x 1-1/2")
4	520-0838	2	Stud (5/16-18 x 4-1/2"LG)	21	526-0238	2	Washer, Flat (3/4")
5	416-0338	1	Frame, Holddown - Battery	22	862-0008	2	Nut, Hex (3/4-10)
6	800-0071	6	Screw, Cap - Hex Head (7/16-14 x 1")	23	403-2505-01	1	Bracket, Mounting - Engine Right Side
7	850-0055	6	Washer, Lock - Spring (7/16")	24	403-2505-02	1	Bracket, Mounting - Engine Left Side (Not Illustrated)
8	856-0012	6	Washer, Lock - EIT (7/16")	25	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
9	800-0071	4	Screw, Cap - Hex Head (7/16-14 x 1")	26	856-0008	1	Washer, Lock - EIT (5/16")
10	526-0219	4	Washer, Flat (7/16")	27	850-0045	1	Washer, Lock - Spring (5/16")
11	850-0055	4	Washer, Lock - Spring (7/16")	28	870-0257	1	Nut, Self-locking - Hex Washer Head (5/16-18)
12	862-0004	4	Nut, Hex (7/16-14)	29	332-1473	1	Terminal, Lug - Ground
13	800-0090	4	Screw, Cap - Hex Head (1/2-13 x 1")	30	403-2511	1	Chassis
14	850-0060	4	Washer, Lock - Spring (1/2")				
15	856-0013	2	Washer, Lock - EIT (1/2")				
16	337-0090	1	Strap, Electrical - Ground				
17	402-0337	4	Mount, Vibration				



# Engine Control



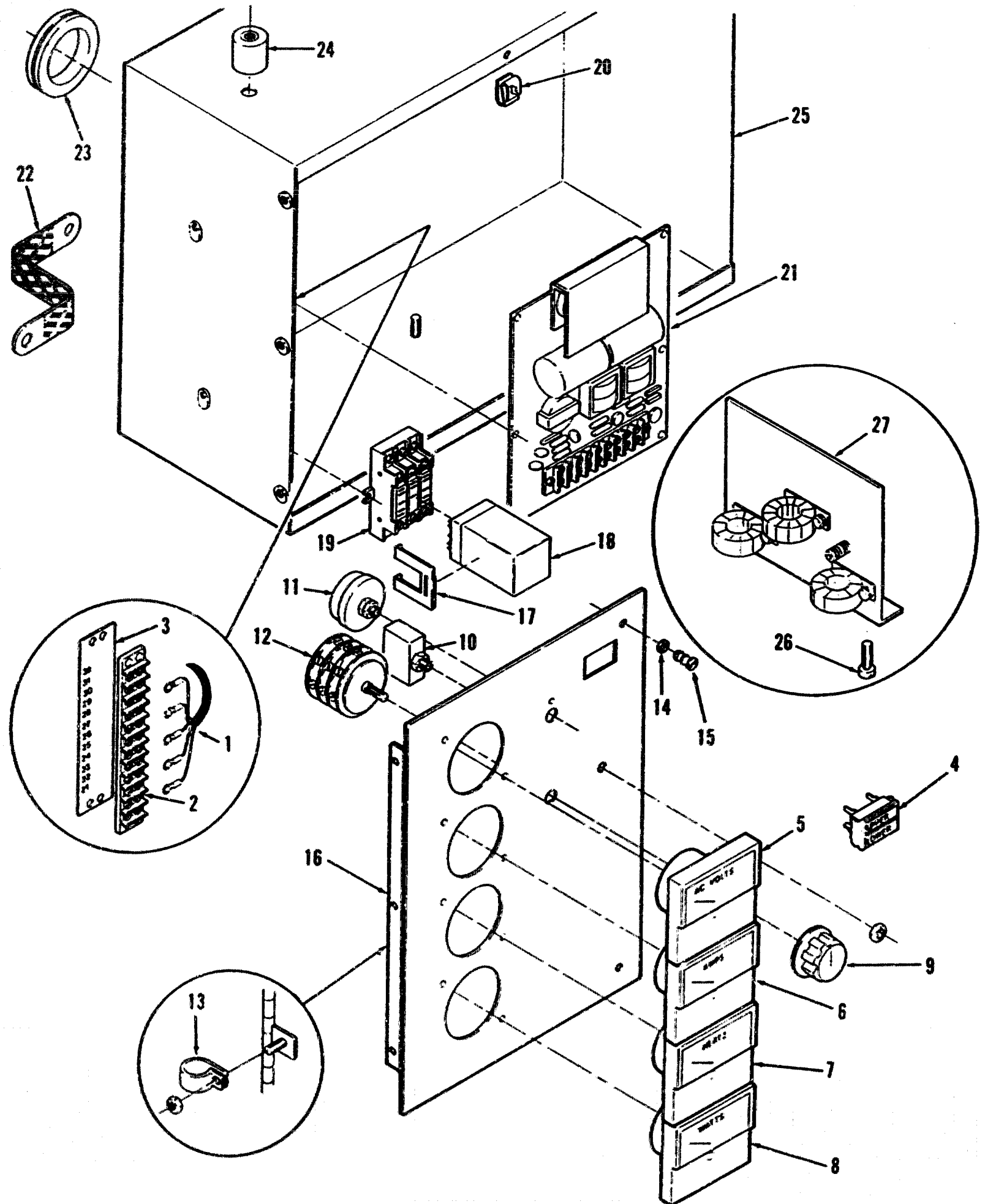
## Engine Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")	17	323-1310	1	Housing, Connector - 13 Pin (J3)
2	300-2897	1	Board - Time Delay, Start/Stop - 12 VDC (A15)		323-1302	13	Contact, Pin
3			Board - Magnetic Sensor, Start Disconnect/Over Speed Sensor (A16)	18	322-0369-01	1	Lamp, Incandescent - 1/3 Watt 14 VDC
	300-2901	1	Standard	19	322-0004	1	Lamp, Incandescent (DS11) 14 VDC
	300-2902	1	Precision	20	322-0361	1	Holder, Lamp
4	300-2905	1	Board - Over-Under Voltage Sensor - 12 VDC (A17)	21	517-0131	1	Plug, Button
5	300-2855	1	Board - 5 Relay 12 VDC (A13)	22	151-0402	1	Potentiometer - Speed Control (R11)
6	300-2862	1	Board - 7 Relay 12 VDC (A14)	23	308-0785	1	Switch, Push - Reset/Panel Lamp (S11)
7			Board - Engine Monitor (A11) (Includes Fuses and Connectors)	24	308-0784	1	Switch, Push - Run/Stop/Remote (S12)
	300-2807	1	12 VDC, 2 Light	26	301-6257	1	Cover - Switch Mounting Hole
	300-2811	1	12 VDC, 12 Light	28	193-0352	1	Gauge, Pressure - Oil (M11)
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	29	193-0351	1	Gauge, Temperature - Water (M12)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	30	302-1790	1	Meter, Ampere - DC (M13)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	31	302-0885	1	Meter, Totalizing - Time (M14)
11	323-1305	1	Connector - 8 Pin (P1)	32	193-0330	1	Gauge, Temperature - Oil (M15)
12	323-1303	1	Connector - 6 Pin (P2)	33	302-1873-01	1	Meter, Tach (M16)
13	323-1309	1	Connector - 13 Pin (P3)	34	517-0221	1	Plug, Button
14	323-1307	1	Connector - 12 Pin (P4)	35	332-0052	1	Clamp, Loop
15	301-8851	1	Bracket, Mounting		870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)
	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	36			Door, Control
16			Module, Indicator - Fault (A12) (Includes Connector)		301-9055-01	1	With 5 Gauge Holes
	322-0358-01	1	12 VDC, 2 Light		301-9055-02	1	With 3 Gauge Holes
	322-0360-01	1	12 VDC, 12 Light	37	338-1817	1	Harness, Wiring - DC (Includes Connector)
	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")	38	323-1308	1	Housing, Connector - 12 Pin (J4)
	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)		323-1302	12	Contact, Pin
				39	323-1304	1	*Housing, Connector - 6 Pin (J2)
					323-1200	6	* Contact, Pin
				40	323-1306	1	*Housing, Connector - 8 Pin (J1)
					323-1200	1	* Contact, Pin

\* - Parts included in Engine Wiring Harness.



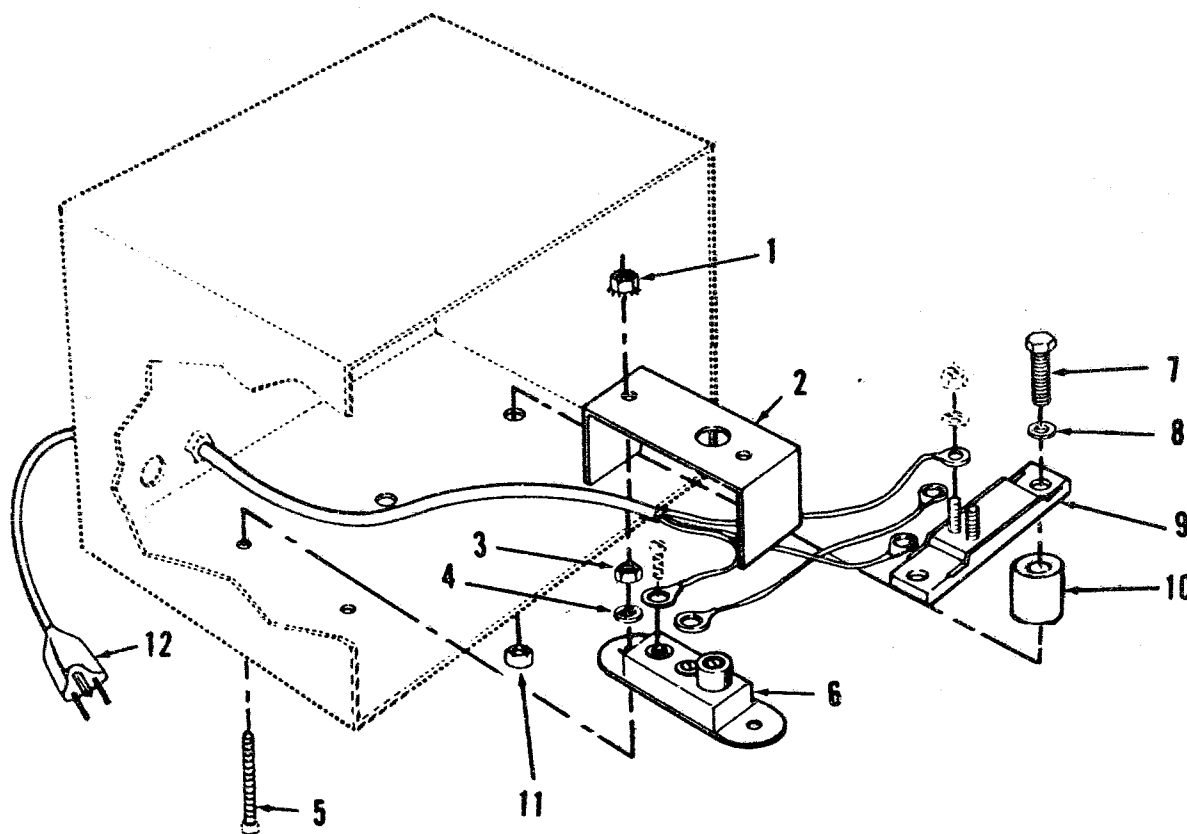
# Generator Control



# Generator Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - (Includes Terminal Block)	17	307-1987	2	Clip - Relay
	338-1818	1	Control with Meters	18	307-1058	1	Relay - 12 VDC (K21)
	338-1853	1	Control without Meters	19	323-0804	1	Socket, Relay
	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")		815-0544	2	Screw, Machine - Round Head IT Lock Washer (#6-32 x 1/2")
2	332-0607	1	Block, Terminal (TB1)	20	406-0332	2	Receptacle, Fastener
3	332-2723	1	Strip, Marker	21	300-2880	1	Regulator, Voltage (VR21)
4	322-0363	1	Light, Indicator - Dual (DS21, DS22)		815-0544	6	Screw, Machine - Round Head IT Lock Washer (#6-32 x 1/2")
5	302-1148	1	Meter, Volt (M21)	22	337-0049	1	Strap, Electrical
6	302-1685	1	Meter, Ampere (M22) 0-200/400 Amp		800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
7	302-1720	1	Meter, Frequency (M23)		856-0008	1	Washer, Lock - EIT (5/16")
8		1	Meter, Watt (M24) (See Separate page for Components)	23	508-0051	1	Grommet
9	303-0032	1	Knob	24	402-0527	2	Mount, Vibration
10	320-1121	1	Breaker, Circuit (CB21)		800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")
11	303-0261	1	Rheostat (R21)		850-0045	4	Washer, Lock - Spring (5/16-18 x 3/8")
12	308-0284	1	Switch, Rotary (S21)	25	301-8065	1	Box, Control
13	332-0052	1	Clamp, Loop	26	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
	870-0131	1	Nut, Self-locking - Hex with El Lock Washer (#10-32)	27		1	Current Transformer (See Separate Page for Components)
14	406-0334	2	Clip - Fastener				
15	406-0333	2	Stud - Fastener				
16			Door, Control				
	301-9054-01	1	With 4 Meter Holes				
	301-9054-02	1	With 3 Meter Holes				
	301-9054-03	1	With No Meter Holes				
	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")				

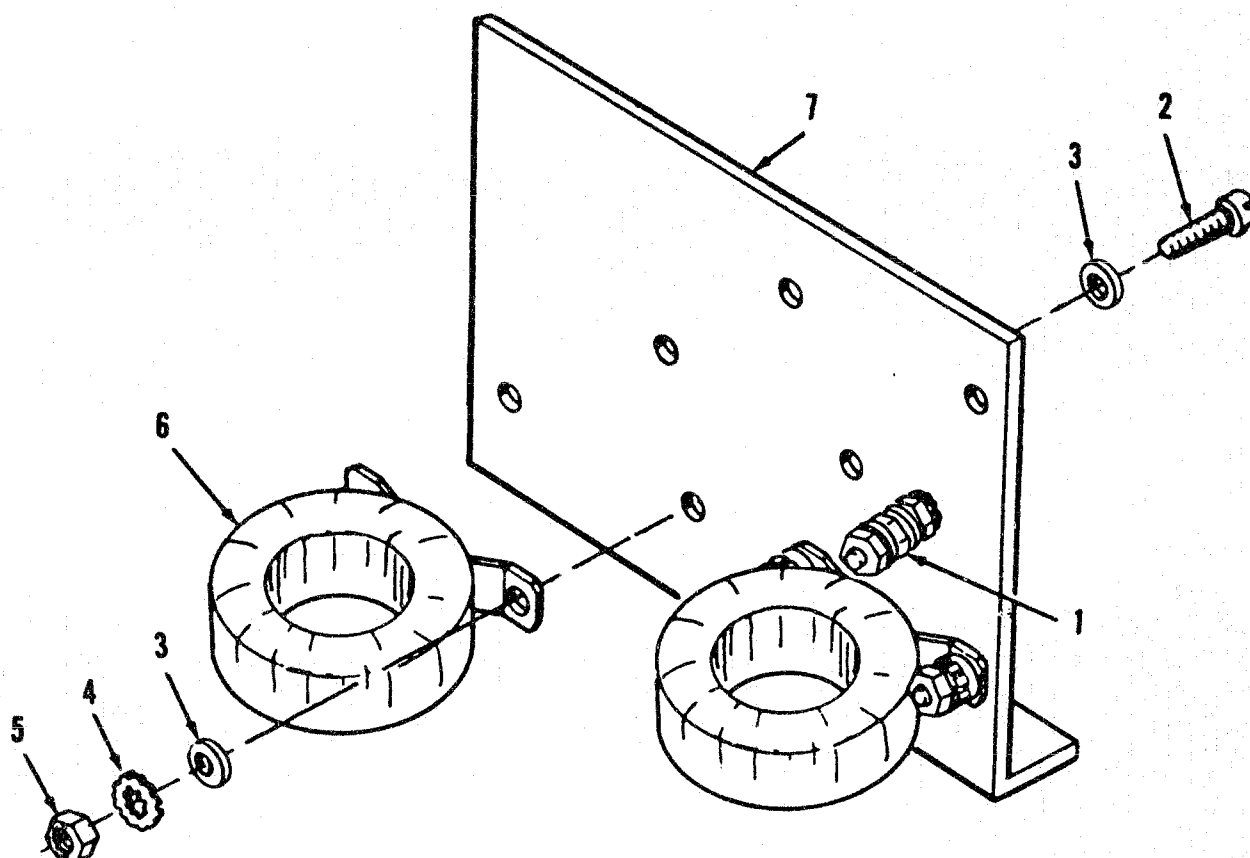
# Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex Washer Head (#6-32)
2	301-1886	1	Cover, Thermostat
3	860-0006	1	Nut, Hex (#6-32)
4	854-0006	2	Washer, Lock - IT (#6)
5	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
6	309-0128	1	Thermostat - Adjustable
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	526-0113	2	Washer, Flat (5/16")
9	333-0151	1	Heater, Electrical - 75 Watt, 120 VAC; 300 Watt, 240 VAC
10	130-1107	2	Spacer, Sleeve
11	870-0257	2	Nut, Self-locking - Hex (5/16-18)
12	335-0161	1	Cable, Electrical

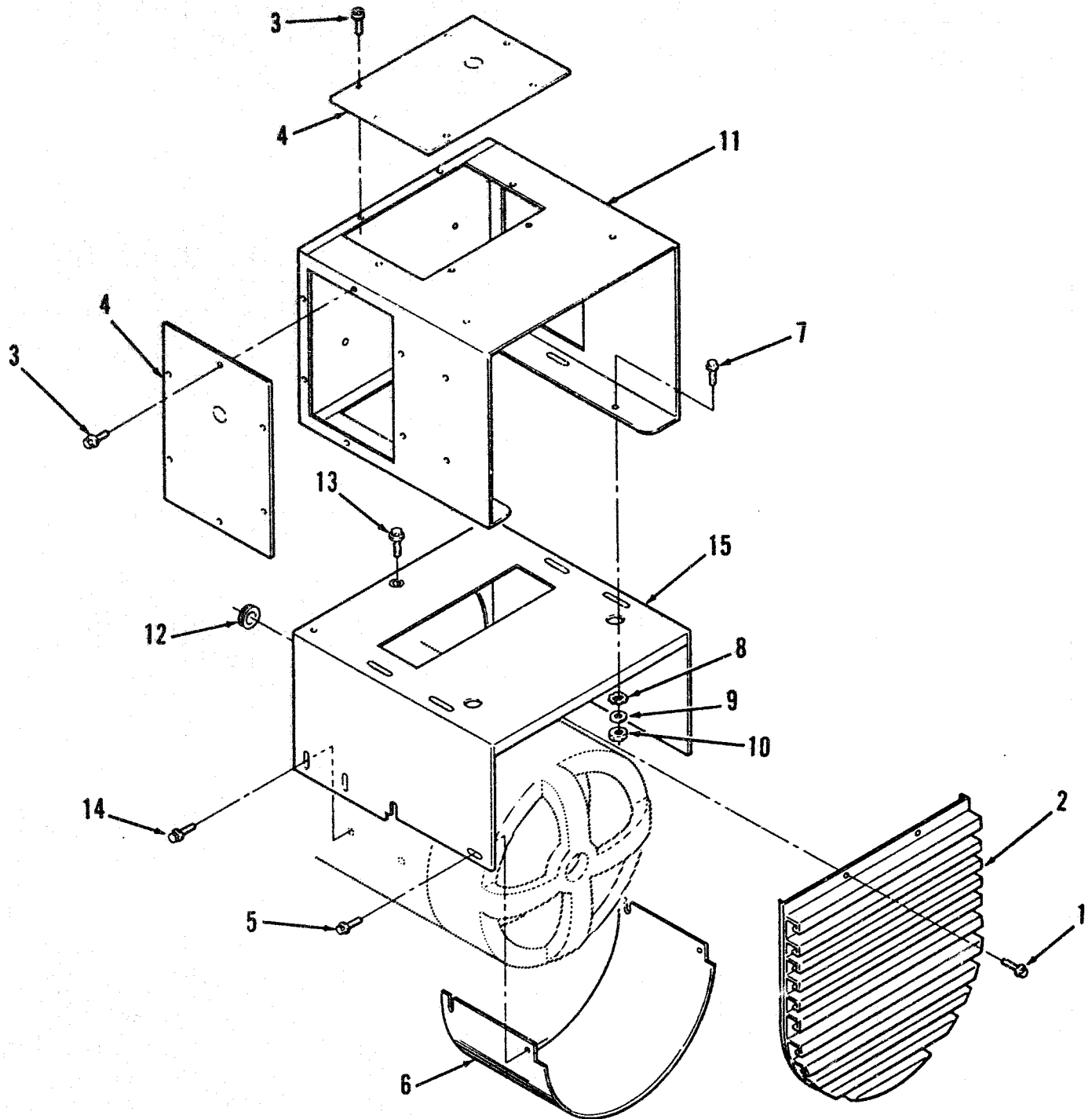
# Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0203	1	Terminal Screw, Machine - Round Head, Brass (#10-32 x 7/8")
	871-0010	3	Nut, Hex - Brass (#10-32)
	856-0003	1	Washer, Lock - EIT (#10)
	854-0010	2	Washer, Lock - IT (#10)
	526-0049	2	Washer, Flat - Brass (13/64"ID x 7/32 "OD x 1/32"THK)
2	813-0100	6	Screw, Machine - Round Head (#10-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	526-0008	6	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)
4	856-0003	6	Washer, Lock - EIT (#10)
5	870-0053	6	Nut, Hex (#10-32)
6	302-0764	1	Bracket, Mounting - Transformer, Current with Mounting Feet
7	302-0608	3	Ratio (Meter Scale) 400/5 (0-200/0-400A)

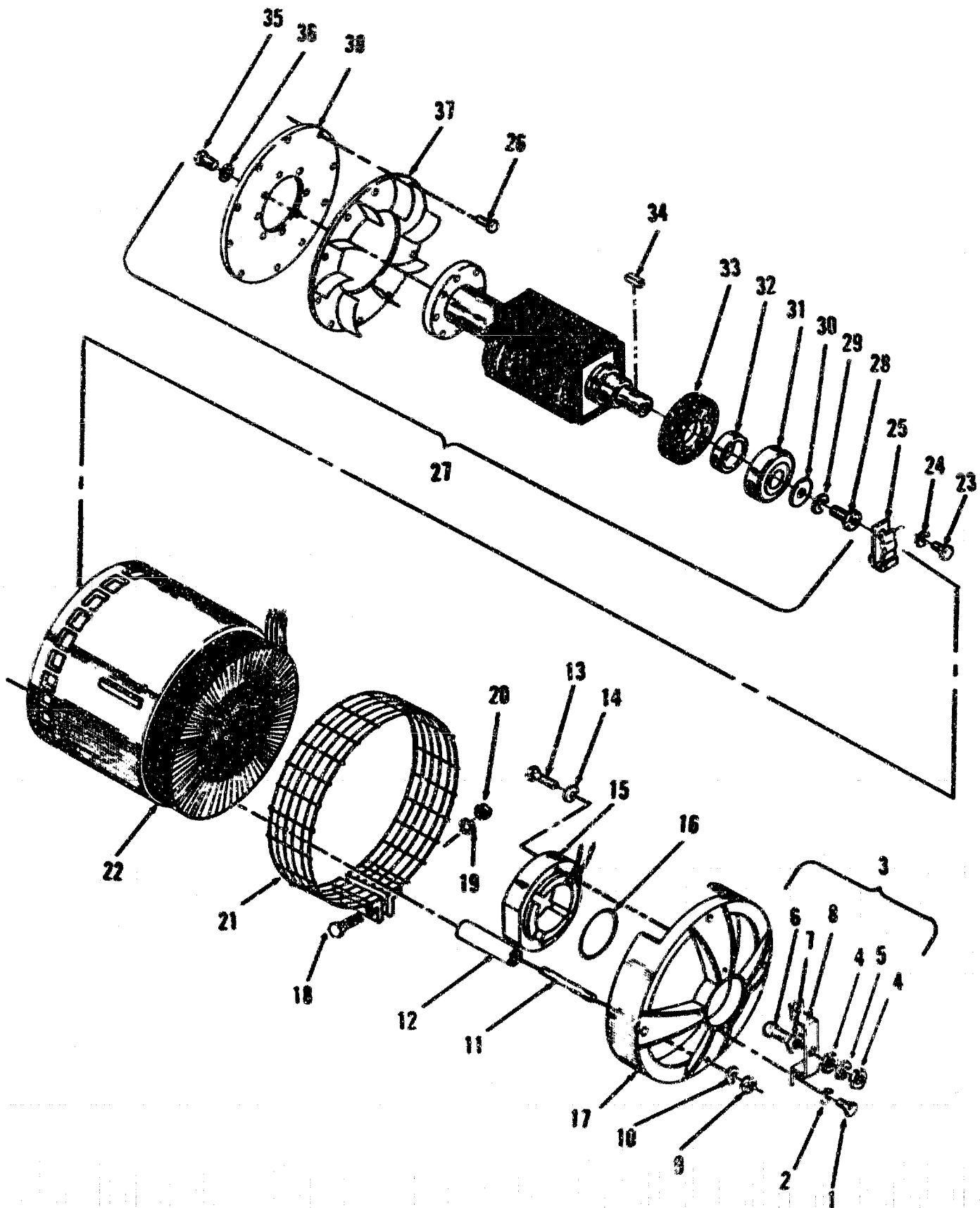
# Control Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-001C	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	8	856-0006	1	Washer, Lock - EIT (1/4")
2	234-0370	1	Grille	9	526-0018	5	Washer, Flat (17/64" ID x 5/8" OD x 1/16" THK)
3	815-0350	18	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	10	870-0212	6	Nut, Hex (1/4-20)
4	301-3156	3	Panel, Access	11	301-3155	1	Housing
5	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	12	508-0203	1	Bushing, Cable
6	234-0361	1	Wrapper - Generator	13	821-0010	1	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
7	821-0018	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")	14	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
				15	301-3154	1	Saddle



# Generator

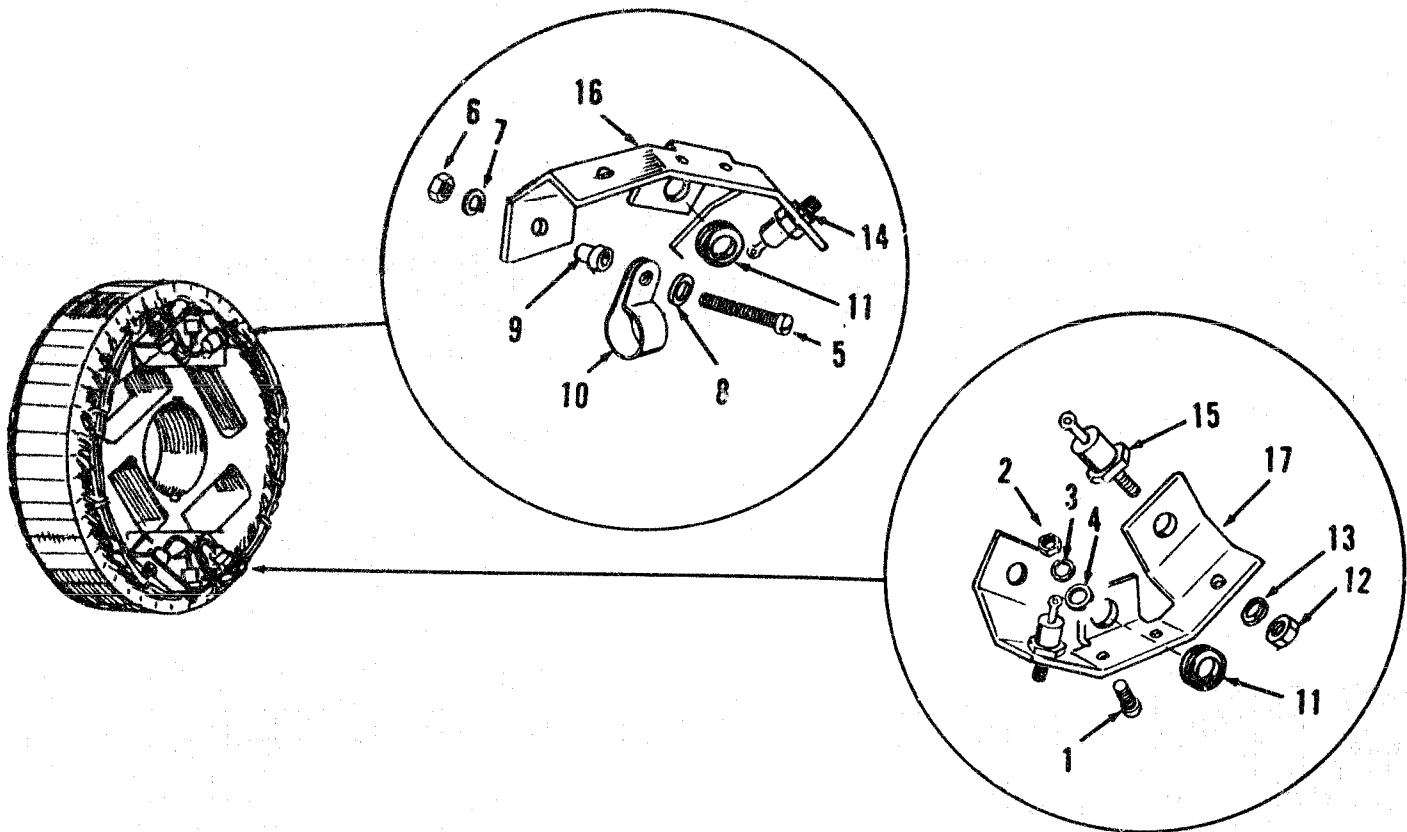


# Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	23	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")
2	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	24	856-0010	1	Washer, Lock - EIT (3/8")
3	150-1456	1	Contact Assembly (Includes Contact and Mounting Bracket)	25	150-0717	1	Switch
4	862-0001	2	Nut, Hex (1/4-20)	26	805-0019	8	Bolt, Place - Hex Head, Grade 8 (3/8-16 x 1-1/4")
5	853-0013	1	Washer, Lock - ET (1/4")	27	201-2674	1	Rotor Assembly, Generator (Includes Fan, Disk, Bearing, Exciter)
6	150-0723	1	Contact, Electrical	28	800-0513	1	Screw, Cap - Hex Head, Modified With Tapped Hole
7	870-0250	1	Nut, Insulated	29	850-0079	1	Washer, Lock - Spring (3/4")
8	150-1356	1	Bracket, Mounting	30	526-0238	1	Washer, Flat - Steel (13/16"ID x 2"OD x 3/16"THK)
9	862-0011	4	Nut, Hex - Grade 8 (3/8-16)	31	510-0101	1	Bearing, Ball
10	850-0050	4	Washer, Lock - Spring (3/8")	32	232-2102	1	Spacer, Sleeve
11			Stud	33			Rotor, Assembly - Exciter (See Separate Page for Components)
	520-0727	4	3/8-16 UNC x 21-7/16"		201-1739	1	Standard
	520-0863	4	3/8-16 UNC x 26-7/8"		201-1845	1	Environmental Protected
12	503-1274	4	Hose	34	515-0145	1	Key, Machine (1/4" x 1/4" x 7/8")
13	800-0009	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	35	805-0035	8	Bolt, Place - Hex Head, Grade 8 (5/8-11 x 1-1/2")
14	850-0040	4	Washer, Lock - Spring (1/4")	36	526-0259	8	Washer, Flat - Hardened (11/16"ID x 1-3/8"OD x 7/64"THK)
15			Stator, Exciter	37	205-0089	1	Fan, Cooling
	220-2353	1	Standard	38	232-2078	1	Disk, Drive
	220-1774	1	Environmental Protected				
16	509-0125	1	Seal, O-Ring				
17	211-0185	1	Bell, End				
18	114-0023	2	Screw, Cap - Hex Head (1/4-20 x 1-1/4")				
19	850-0040	2	Washer, Lock - Spring (1/4")				
20	862-0001	2	Nut, Hex (1/4-20)				
21	234-0368	1	Screen, Air				
22			Stator Assembly, Generator				
	220-2002	1	80 kW, Code 515				
	220-1459	1	100 kW, Code 15				



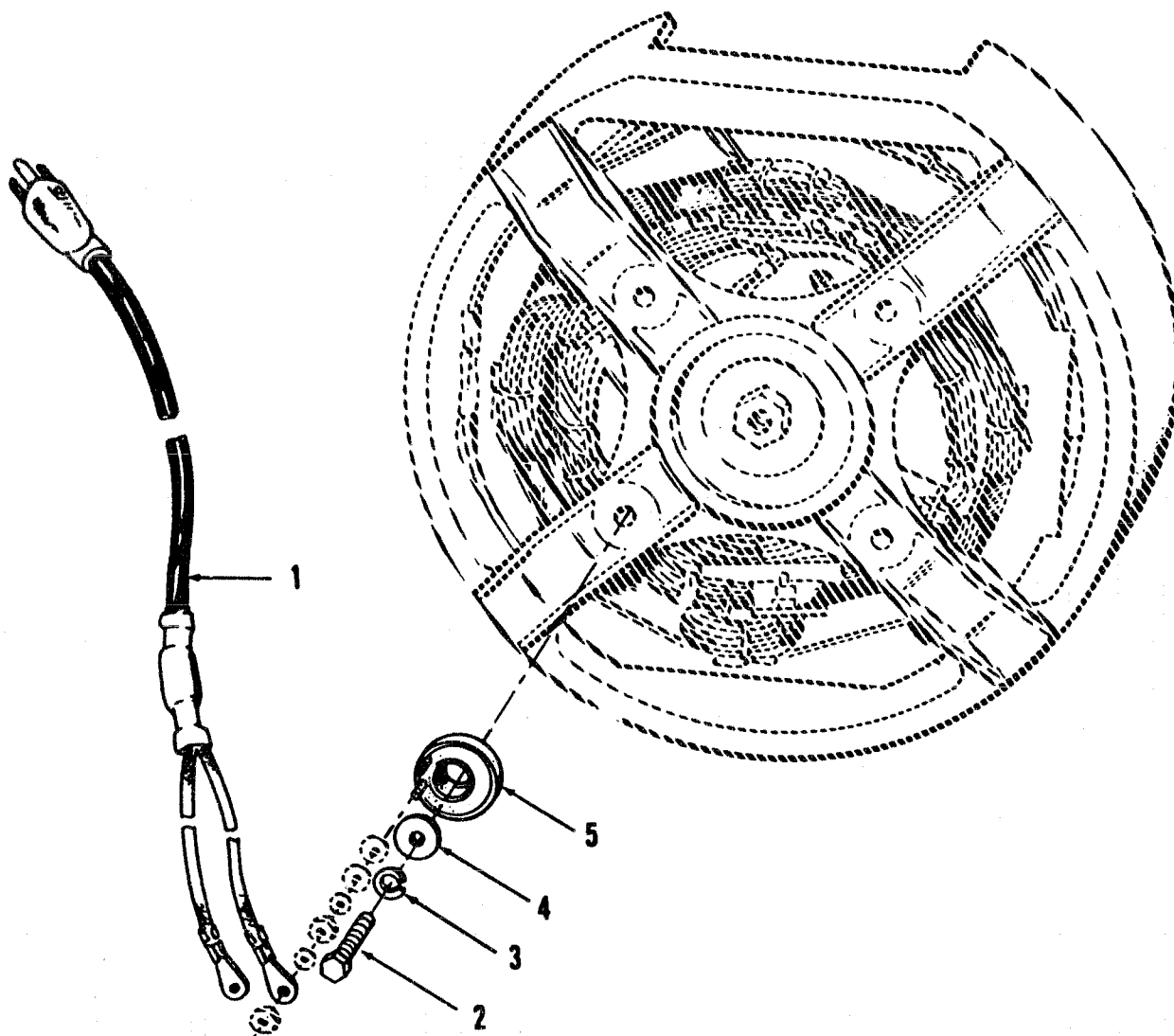
## Exciter Rotor Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	201-1739	1	Rotor, Exciter (Includes Heat Sinks and Diodes)
	201-1845	1	Standard
1	813-0100	2	Enviromental Protected
		2	Screw, Machine - Round Head (#10-32 x 1/2")
2	870-0053	2	Nut, Hex (#10-32)
3	850-0030	2	Washer, Lock - Spring (#10)
4	526-0008	2	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)
5	813-0110	4	Screw, Machine - Round Head (#10-32 x 2")
6	870-0053	4	Nut, Hex (#10-32)
7	850-0030	4	Washer, Lock - Spring (#10)
8	526-0009	4	Washer, Flat (7/32"ID x 1/2"OD x 1/16"THK)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	508-0187	4	Spacer, Stepped
10	332-0050	2	Clamp, Loop
11	508-0093	2	Grommet
12	870-0053	6	Nut, Hex (#10-32)
13	850-0030	6	Washer, Lock - Spring (#10)
14			Rectifier - Positive CR1, CR2, CR3
	358-0097	3	Standard
	358-0044	3	Enviromental Protected
15			Rectifier - Negative CR4, CR5, CR6
	358-0096	3	Standard
	358-0043	3	Enviromental Protected
16	363-0054	1	Sink, Heat
17	363-0055	1	Sink, Heat

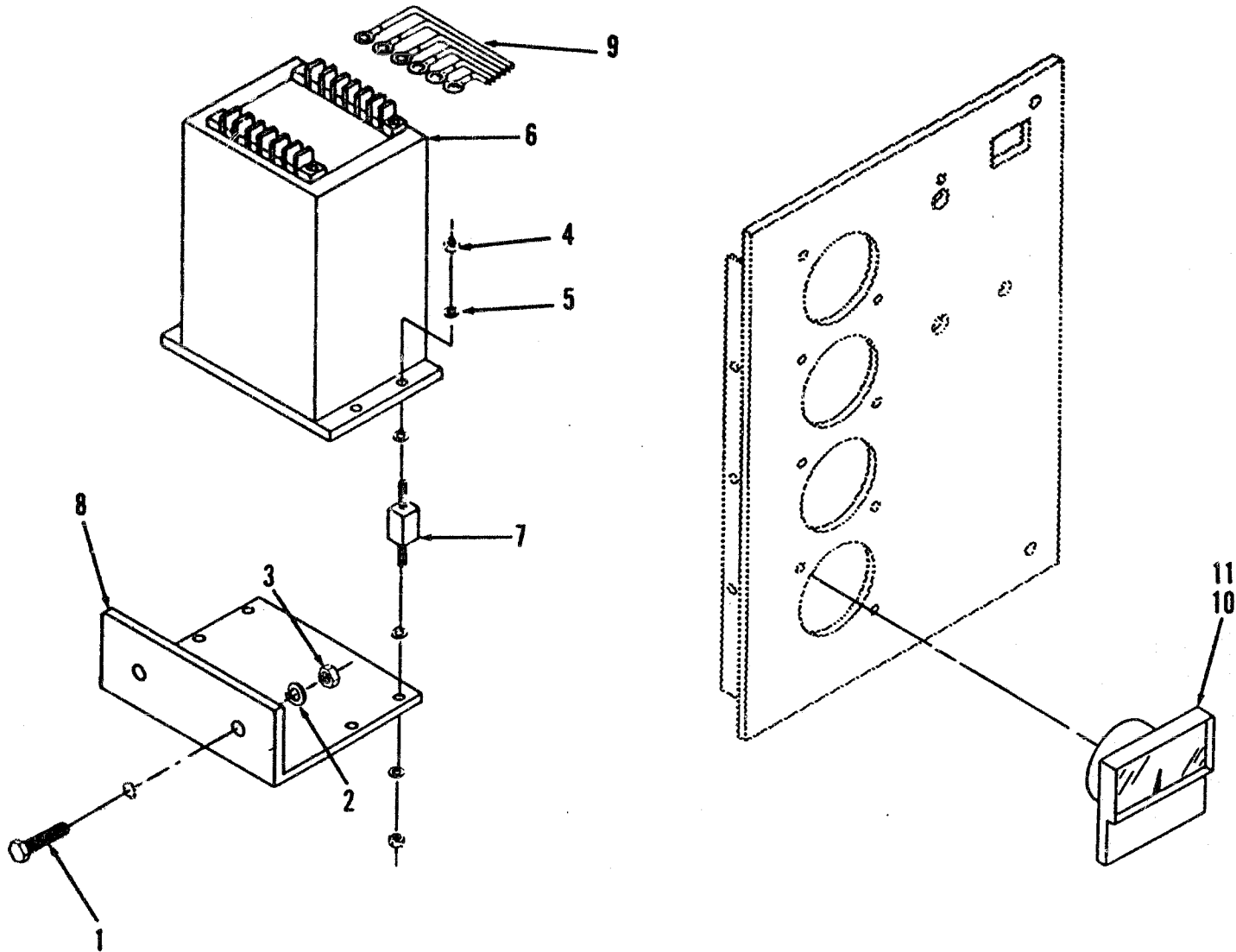
# Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cable, Electrical (Includes Thermostat)
	335-0146	1	120 VAC
	335-0147	1	240 VAC
2	800-0004	1	Screw, Cap - Hex Head (1/4-20 x 5/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0038	1	Washer, Lock - Spring (1/4")
4	526-0158	1	Washer, Flat (17/64" ID x 1" OD x 1/8" THK)
5			Heater, Electrical
	333-0059	1	125 Watt, 120 VAC
	333-0192	1	200 Watt, 240 VAC

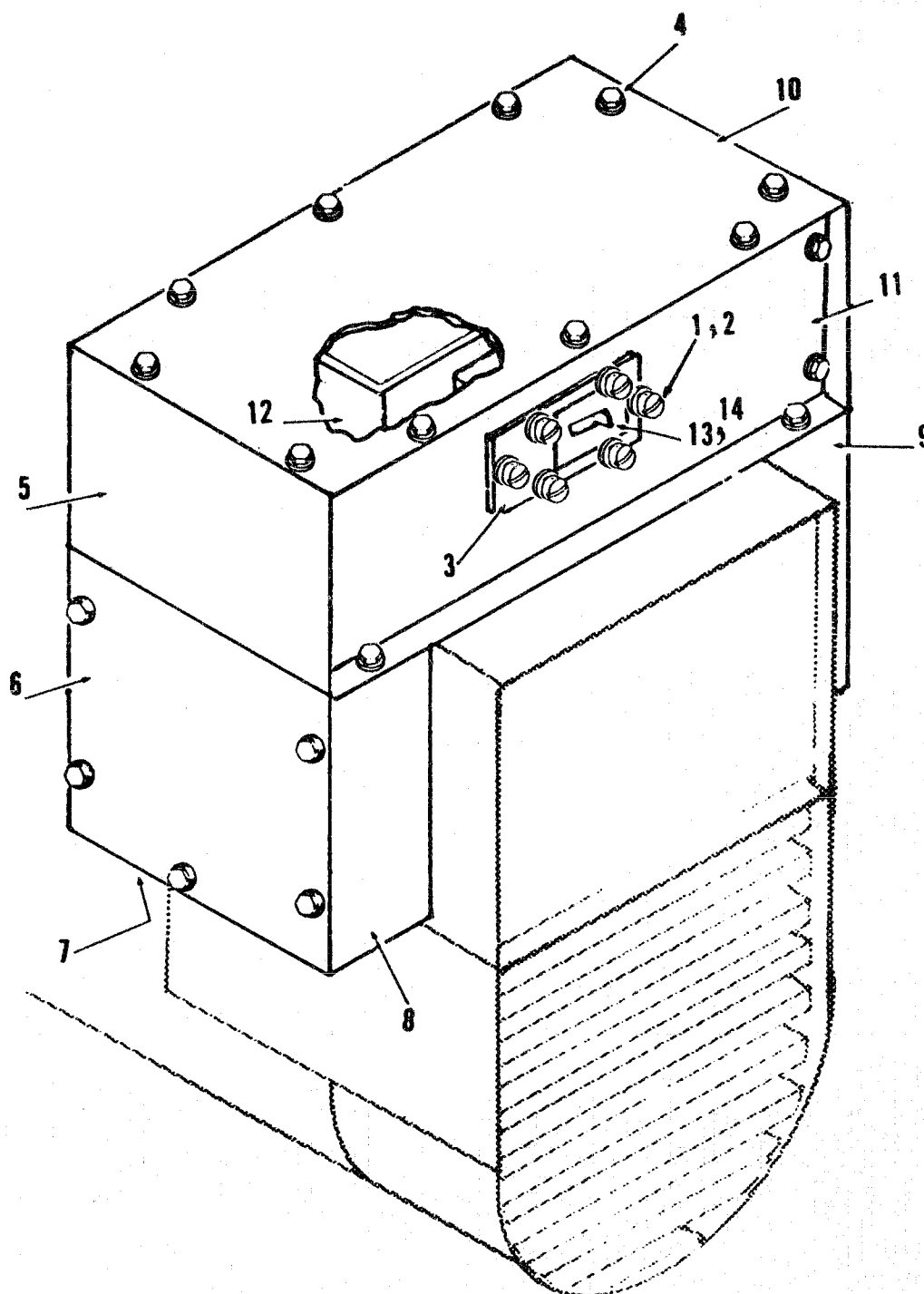
# Watt Meter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
2	850-0045	2	Washer, Lock - Spring (5/16")
3	862-0014	2	Nut, Hex (5/16-18)
4	860-0008	8	Nut, Hex (#8-32)
5	856-0002	16	Washer, Lock - EIT (#8)
6	302-1082	1	Transducer, Watt 3 Phase, 60 Hertz
	302-1083	1	3 Phase, 50 Hertz

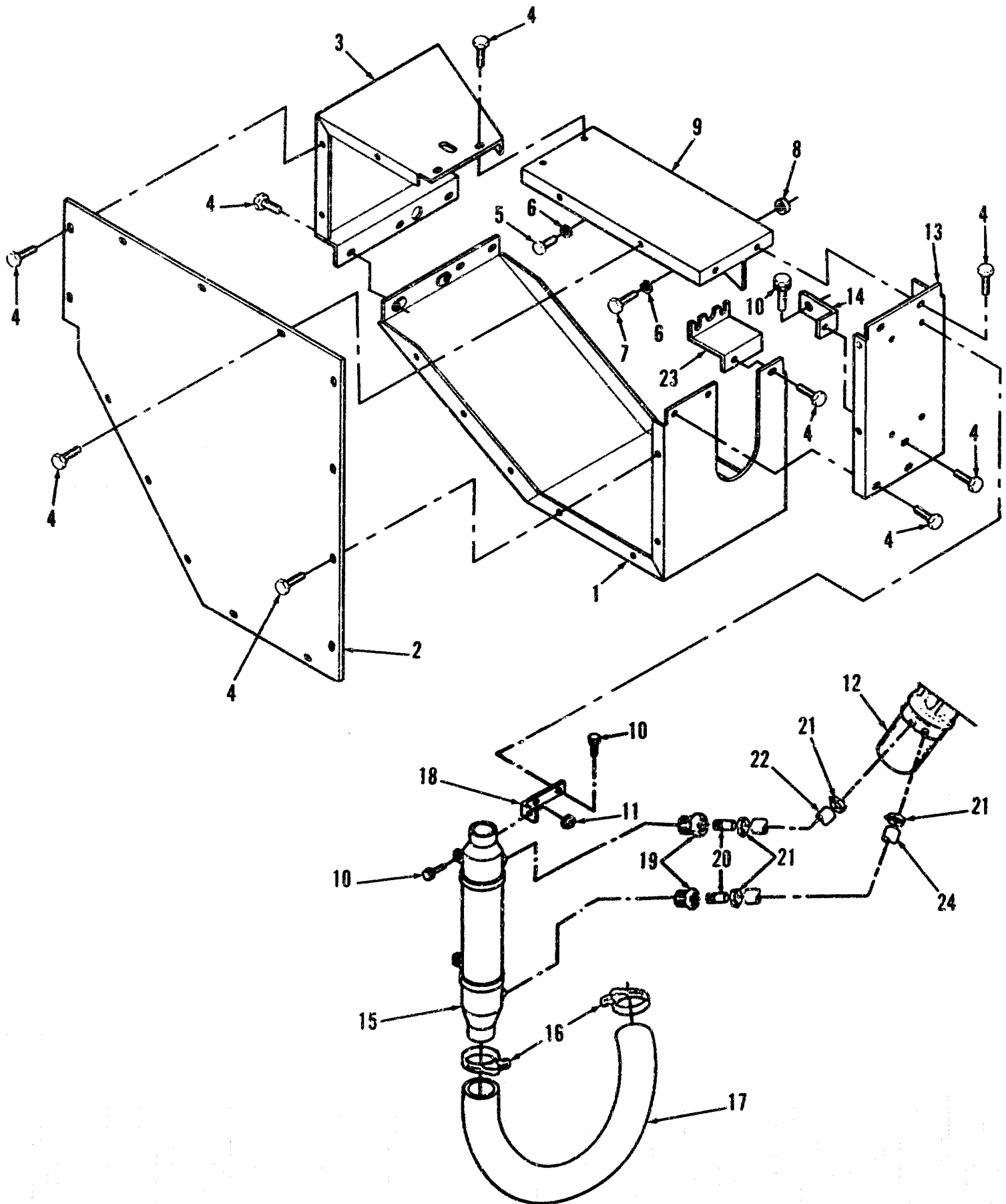
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	402-0354	4	Mount, Vibration
8	301-6987	1	Bracket, Mounting
9	338-1936	1	Harness, Wiring
10	302-1722	1	Meter, Watt
11	302-1721-05	1	Dial - Scale 0-115 kW

# Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0096	6	Screw, Machine - Round Head (#10-32 x 1/4")	11	301-9251	1	Panel, Front
2	850-0030	6	Washer, Lock - Spring (#10)	12	301-9716	1	Bracket, Mounting
3	301-9721	1	Cover, Circuit Breaker	13	812-0156	6	Screw, machine - Round Head (1/4-20 x 1-1/2")
4	815-0350	52	Screw, Self-locking - Hex Washer Head (#10-32 x 3/8")	14			Breaker, Circuit
5	301-9258	1	Wrapper		320-1458-30	1	125 Amp 3 Phase
6	301-9255	2	Cover, Side		320-1458-31	1	150 Amp 3 Phase
7	301-9254	2	Panel, Bottom		320-1512-08	1	200 Amp 1 Phase
8	301-9253	2	Panel, End		320-1459-49	1	200 Amp 3 Phase
9	301-9252	2	Panel End		320-1460-07	1	300 Amp 3 Phase
10	301-9257	1	Cover, Top		320-1513-08	1	350 Amp 1 Phase
					320-1460-08	1	350 AMP 3 Phase

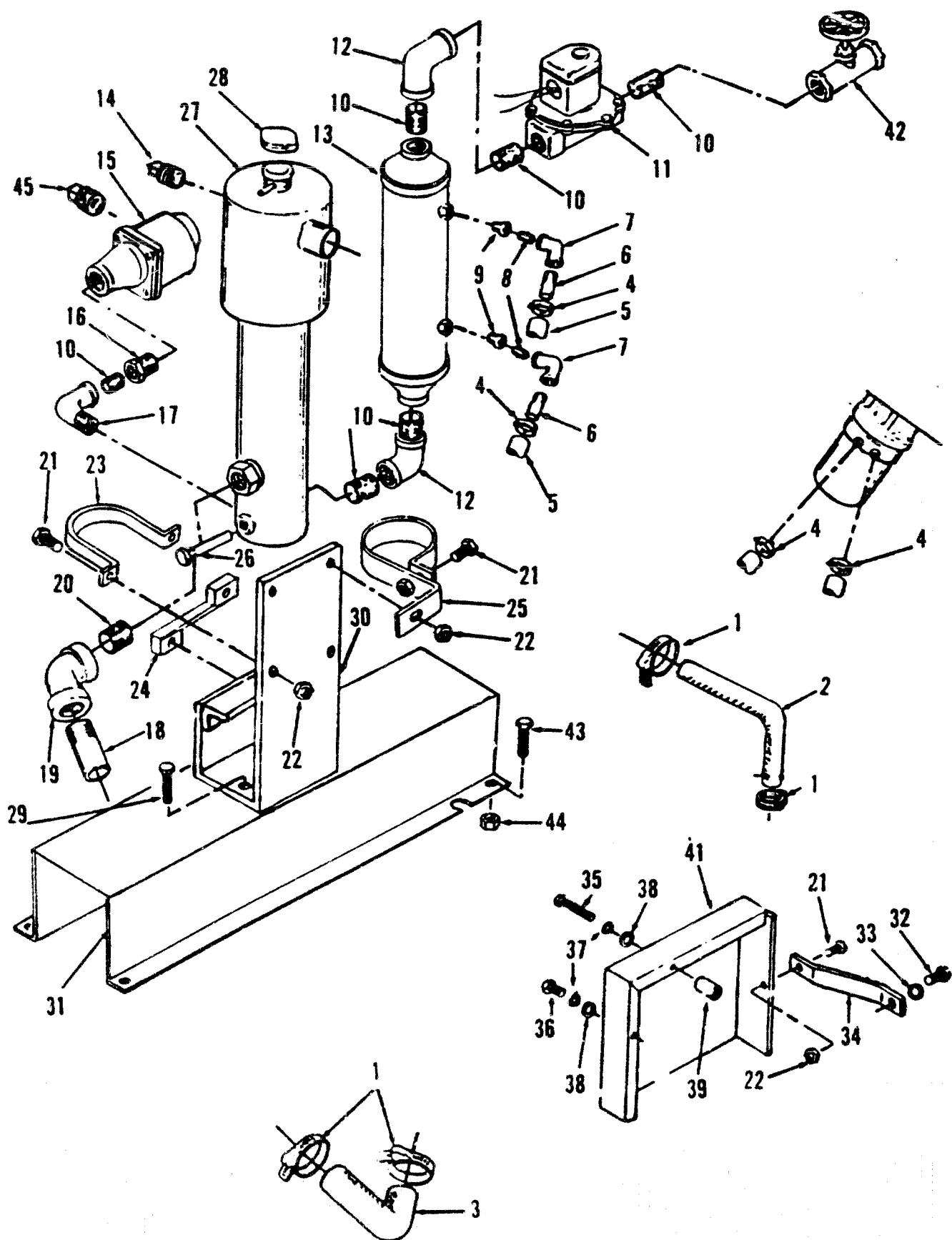
# Remote Radiator



# Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3056	1	Guard, Belt	12	102-1097	1	Adapter, Cooler - Oil
2	130-3057	1	Cover, Guard - Belt	13	130-3054	1	Guard, Belt
3	130-3053	1	Guard, Belt	14	130-3003	1	Bracket, Guard - Belt
4	821-0010	26	Screw, Cap - Hex Head (1/4-20 x 1/2")	15	102-1238	1	Cooler, Oil
5	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")	16	503-0279	2	Clamp, Hose
6	850-0050	2	Washer, Lock - Spring (3/8)	17	503-0753	1	Hose
7	850-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	18	102-1244	2	Bracket, Cooler - Oil
8	191-0864	1	Spacer	19	505-0018	2	Bushing, Reducer (1/2 x 1/4)
9	130-3055	1	Guard, Belt	20	505-0302	2	Nipple, Half (1/4 x 1-1/2")
10	821-0029	7	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")	21	503-0446	4	Clamp, Hose
11	870-0281	2	Nut, Self-Locking - Hex Washer Head (3/8-16)	22	503-1101	1	Hose, Oil (24")
				23	130-3002	1	Bracket, Guard - Belt
				24	503-1101	1	Hose, Oil (12")

# Cooling System Heat Exchanger ENTX



# **Cooling System Heat Exchanger ENTX**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0274	4	Clamp, Hose	23	130-0802	2	Strap, Holddown
2	503-0846	1	Hose, Rubber - Lower (2"ID x 20")	24	130-1112	1	Strap, Support
3	503-0753	1	Hose, Rubber - Upper (2"ID x 24")	25	102-1159	1	Support, Cooler - Oil
4	503-0446	4	Clamp, Hose	26	130-1340	1	Pencil, Zinc (3/8"NPT)
5	503-1099	2	Hose, Rubber (1/2"ID x 29")	27	130-2162	1	Exchanger, Head (Includes Cap)
6	505-0302	2	Nipple, Pipe - Half (1/4"NPT x 1-1/2")	28	130-0661	1	Cap, Exchanger - Heat (7 PSI)
7	505-0038	2	Elbow, Pipe - 90° (1/4"NPT)	29	821-0016	3	Screw, Hex Washer Head - Self-Locking (5/16-18 x 3/4")
8	505-0099	2	Nipple, Pipe - Close (1/4"NPT x 7/8")	30	130-1110	1	Bracket, Mounting
9	505-0018	2	Bushing, Reducer - Hex (1/2"NPT x 1/4"NPT)	31	130-3151	1	Bracket, Mounting - Heat Exchanger
10	505-0102	6	Nipple, Pipe (3/4"NPT x 1-3/8")	32	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
11	307-0835	1	Valve, Solenoid - 12VDC	33	850-0055	1	Washer, Lock - Spring (7/16")
12	505-0132	2	Elbow, Pipe - 90° (3/4"NPT)	34	130-1008	1	Strap
13	102-1114	1	Cooler, Oil	35	800-0056	1	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
14	505-0130	2	Plug, Pipe (3/4"NPT)	36	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
15	505-1301	1	Valve, Control - Temperature Regulating (1"NPT)	37	850-0050	2	Washer, Lock - Spring (3/8")
16	505-0129	1	Bushing, Reducer - Hex (1"NPT x 3/4"NPT)	38	526-0174	2	Washer, Flat (3/8")
17	505-0051	1	Elbow, Pipe - Street (90°) (3/4"NPT)	39	130-1009	1	Spacer, Sleeve
18	505-0385	1	Nipple, Pipe - Half (1-1/2"NPT x 2")	40	130-2244	1	Spacer, Sleeve
19	505-0043	1	Elbow, Pipe - 90° (1-1/2"NPT)	41	130-1050	1	Guard, Belt
20	505-0109	1	Nipple, Pipe (1-1/2"NPT x 2-1/5")	42	504-0046	1	Valve, Globe (3/4"NPT)
21	821-0011	7	Screw, Hex Washer Head - Self-Locking (1/4-20 x 7/8")	43	148-0274	2	Bracket, "J"
22	870-0212	7	Nut, Hex Washer Head - Self- Locking (1/4-20)	44	821-0029	4	Screw, Hex Head - Self-Locking (3/8-16 x 3/4")
				45	870-0281	4	Nut, Lock (3/8-16)
				46	505-0140	1	Plug, Square Head (1")



# Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
102-1097	11	130-3056	45	191-0864	19	300-2807	31
102-1097	45	130-3057	45	191-0864	45	300-2811	31
102-1113	11	140-1260	17	191-0943	13	300-2855	31
102-1238	45	140-1548	17	191-0948	13	300-2862	31
102-1244	45	140-1724	4	191-0950	13	300-2880	33
102-1320	11	140-1837	4	191-0953	13	300-2897	31
104-0723	9	140-2114	17	191-0954	13	300-2901	31
104-1097	9	145-0532	17	191-0957	13	300-2902	31
104-1673	19	145-0533	23	191-0963	13	300-2905	31
114-0023	15	145-0534	11	191-1099	12	301-1886	34
114-0023	39	145-0535	11	191-1388	12	301-3154	36
115-0025	15	145-0540	17	191-1388	13	301-3155	36
121-0036	11	145-0575	17	191-1390	13	301-3156	36
121-0037	11	145-0576	17	191-1522	13	301-6257	31
122-0193	11	145-0577	17	191-1693	13	301-6987	42
127-0376	17	145-0578	17	191-1702	13	301-8065	33
127-0376	23	145-0583	17	191-1703	13	301-8851	31
127-0380	17	145-0585	17	191-1710	13	301-9054-01	33
127-0380	23	145-0586	17	191-1711	13	301-9054-02	33
128-0110	27	145-0587	17	191-1722	13	301-9054-03	33
128-0111	27	145-0590	17	191-1792	12	301-9055-01	31
130-0968	19	148-0601	17	191-1981	12	301-9055-02	31
130-0971	19	150-0717	39	191-1983-01	12	301-9251	43
130-0973	19	150-0723	39	191-2028	12	301-9252	43
130-0986	19	150-1356	39	191-2031	12	301-9253	43
130-1024	19	150-1456	39	191-2032	12	301-9254	43
130-1107	34	150-1995	15	193-0244	7	301-9255	43
130-1805	12	150-2145	15	193-0247	7	301-9257	43
130-1988	19	150-2163	15	193-0249	9	301-9258	43
130-1997	19	151-0402	31	193-0330	31	301-9716	43
130-1999	19	151-0433	15	193-0351	31	301-9721	43
130-2344	19	151-0624	15	193-0352	31	302-0608	35
130-2850	21	151-0625	15	201-1739	39	302-0764	35
130-2851	21	151-0629	15	201-1739	40	302-0885	31
130-2982	19	154-2499	23	201-1845	39	302-1082	42
130-2983	19	154-2500	23	201-1845	40	302-1083	42
130-2984	19	154-2528	23	201-2674	39	302-1148	33
130-2987	19	155-1430	25	205-0089	39	302-1685	33
130-2991	19	155-1886	23	211-0185	39	302-1720	33
130-2996	19	155-2062-07	25	220-1459	39	302-1721-05	42
130-2997	19	155-2105	25	220-1774	39	302-1722	42
130-2998	19	155-2193	23	220-2002	39	302-1790	31
130-3001	19	155-2195	25	220-2353	39	302-1873-01	31
130-3002	19	155-2196-01	25	226-3413	7	303-0032	33
130-3002	45	155-2197	25	231-0260	9	303-0261	33
130-3003	19	155-2198	25	232-2078	39	307-1058	33
130-3003	45	191-0101	12	232-2102	39	307-1164	21
130-3053	45	191-0661	13	234-0361	36	307-1166	7
130-3054	45	191-0662	13	234-0368	39	307-1987	33
130-3055	45	191-0773	7	234-0370	36	308-0284	33

# Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
308-0784	31	332-0050	40	405-3691	27	505-0007	11
308-0785	31	332-0052	31	405-3692	27	505-0007	17
309-0128	34	332-0052	33	405-3693	27	505-0011	4
309-0178	9	332-0149	21	405-3694	27	505-0017	4
309-0179	9	332-0607	33	406-0332	33	505-0018	11
309-0269	9	332-1281	9	406-0333	33	505-0018	45
309-0304	21	332-1292	9	406-0334	33	505-0057	7
309-0476	19	332-1473	28	406-0574	27	505-0057	23
309-0477	19	332-2723	33	406-0576	27	505-0102	17
309-0478	19	333-0059	41	406-0577	27	505-0104	7
309-0479	19	333-0141	21	416-0019	7	505-0129	17
309-0544	7	333-0146	21	416-0338	28	505-0130	9
309-0545	7	333-0147	21	416-0530	7	505-0135	11
312-0201	12	333-0148	21	502-0002	11	505-0302	11
320-1121	33	333-0151	34	502-0003	11	505-0302	45
320-1458-30	43	333-0158	21	502-0058	7	505-0387	25
320-1458-31	43	333-0167	21	502-0156	21	505-0455	21
320-1459-49	43	333-0192	41	502-0613	21	505-0499	9
320-1460-07	43	335-0146	41	502-0942	21	505-0763	7
320-1460-08	43	335-0147	41	502-1012	4	505-1369	23
320-1512-08	43	335-0161	34	502-1013	11	508-0015	9
320-1513-08	43	337-0049	33	503-0032	11	508-0051	33
321-0094	31	337-0090	28	503-0183	21	508-0093	40
321-0231	31	338-1817	31	503-0279	45	508-0187	40
321-0270	31	338-1818	33	503-0386	21	508-0203	36
322-0004	31	338-1853	33	503-0446	45	509-0125	39
322-0358-01	31	338-1936	42	503-0547	4	509-0165	17
322-0360-01	31	338-2027	7	503-0547	11	510-0101	39
322-0361	31	338-2628	7	503-0571	19	511-0092	12
322-0363	33	358-0043	40	503-0753	45	511-0153	19
322-0369-01	31	358-0044	40	503-0998	17	515-0093	13
323-0804	33	358-0096	40	503-1093	4	515-0145	39
323-0957	21	358-0097	40	503-1097	11	517-0131	31
323-1200	7	363-0054	40	503-1099	11	517-0221	31
323-1200	31	363-0055	40	503-1101	45	520-0727	39
323-1302	31	370-4055	12	503-1101	45	520-0838	28
323-1303	31	402-0354	42	503-1133	4	520-0863	39
323-1304	7	402-0371	28	503-1133	11	520-0925	23
323-1304	31	402-0527	33	503-1141	19	520-0967	15
323-1305	31	403-2505-01	28	503-1188	11	526-0008	35
323-1306	7	403-2505-02	28	503-1274	39	526-0008	40
323-1306	31	403-2511	28	503-1506	4	526-0009	40
323-1307	31	405-3347	27	503-1507	17	526-0018	21
323-1308	31	405-3352	27	503-1508	17	526-0018	36
323-1309	31	405-3353	27	504-0003	19	526-0022	23
323-1310	31	405-3357	27	504-0003	21	526-0029	12
330-0004	21	405-3358	27	504-0030	11	526-0032	23
330-0005	21	405-3361	27	505-0004	21	526-0035	19
331-0027	21	405-3368	27	505-0007	7	526-0049	35
332-0014	21	405-3375	27	505-0007	9	526-0113	34

# Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
526-0115	28	812-0156	43	850-0050	11	870-0048	25
526-0158	41	813-0096	43	850-0050	12	870-0053	35
526-0219	28	813-0098	15	850-0050	15	870-0053	40
526-0238	28	813-0100	35	850-0050	19	870-0131	31
526-0238	39	813-0100	40	850-0050	23	870-0131	33
526-0259	39	813-0110	40	850-0050	39	870-0183	31
526-2106	12	815-0203	35	850-0050	45	870-0183	34
800-0003	39	815-0236	27	850-0051	45	870-0196	9
800-0004	41	815-0350	36	850-0055	7	870-0212	15
800-0006	21	815-0350	43	850-0055	9	870-0212	27
800-0009	39	815-0385	31	850-0055	15	870-0212	36
800-0024	33	815-0544	31	850-0055	28	870-0235	27
800-0026	11	815-0544	33	850-0060	15	870-0250	39
800-0026	28	815-0607	27	850-0060	19	870-0257	11
800-0028	19	819-1083	27	850-0060	28	870-0257	27
800-0029	17	821-0004	31	850-0070	13	870-0257	28
800-0029	19	821-0004	33	850-0079	28	870-0257	34
800-0034	34	821-0010	27	850-0079	39	870-0281	19
800-0036	25	821-0010	33	850-2005	12	870-0281	23
800-0039	19	821-0010	36	850-2006	12	870-0281	27
800-0045	33	821-0010	45	851-0039	12	870-0281	45
800-0048	9	821-0014	27	853-0013	39	870-2160	12
800-0048	39	821-0014	36	853-0018	9	871-0010	35
800-0050	11	821-0016	11	854-0006	34		
800-0050	12	821-0016	19	854-0010	35		
800-0050	45	821-0017	42	856-0002	42		
800-0051	19	821-0018	7	856-0003	35		
800-0052	12	821-0018	19	856-0006	36		
800-0052	23	821-0018	36	856-0008	28		
800-0054	15	821-0028	19	856-0008	33		
800-0071	7	821-0029	9	856-0010	39		
800-0071	28	821-0029	19	856-0012	28		
800-0072	9	821-0029	21	856-0013	7		
800-0072	15	821-0029	27	856-0013	28		
800-0090	28	821-0029	45	860-0006	34		
800-0091	15	850-0028	12	860-0008	42		
800-0153	28	850-0030	15	860-0011	21		
800-0513	39	850-0030	21	860-2008	12		
800-0520	28	850-0030	40	862-0001	13		
800-0574	23	850-0030	43	862-0001	21		
800-1507	23	850-0038	41	862-0001	39		
800-2058	12	850-0040	19	862-0003	23		
800-2097	12	850-0040	39	862-0004	28		
805-0019	39	850-0045	11	862-0005	12		
805-0035	39	850-0045	17	862-0008	28		
809-0035	9	850-0045	19	862-0011	39		
812-0065	33	850-0045	23	862-0014	42		
812-0070	34	850-0045	28	862-0016	19		
812-0075	7	850-0045	33	865-0007	28		
812-0100	21	850-0045	42	868-0007	13		